

Chuska Energy Co., Black Rock #8
18,40N,29E. NE NE #871

COUNTY APACHE AREA BLACK ROCK FIELD LEASE NO. NAVAJO TRIBE
NOG 8702-1116

WELL NAME CHUSKA ENERGY COMPANY, BLACK ROCK NO. 8

LOCATION NE NE SEC 18 TWP 40N RANGE 29E FOOTAGE 1190' FNL, 1190' FEL
ELEV 6225' GR 6236.5' KB SPUD DATE 1/11/90 STATUS GAS TOTAL
COMP. DATE 3/1/90 DEPTH 5940'

CONTRACTOR AZTEC DRILLING COMPANY

CASING	IZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY	
8 5/8"		502'	360sx		X	
5 1/2"		5940'	1650sx			
					DRILLED BY CABLE TOOL	
					PRODUCTIVE RESERVOIR	PARADOX FM
					INITIAL PRODUCTION	3140 MCFPD

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
UPPER ISMAY	4854			TOPS SUPPLIED BY OPERATOR
LOWER ISMAY	4911			
DESERT CREEK	5002			
AKAH	5142			
BARKER CREEK	5298			
PINKERTON TRAIL	5425			
MISSISSIPPIAN	5694			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
DLL/SP/GR/CAL, CNL/LDC,	SEE COMPLETION RPT	SEE COMP RPT	SAMPLE DESCRP.
MICROSCAN			SAMPLE NO. 1869
			CORE ANALYSIS
			DSTs

REMARKS _____ APP. TO PLUG _____
PLUGGING REP. _____
COMP. REPORT 3/5/90

WATER WELL ACCEPTED BY _____

BOND CO. VALLEY NATIONAL BANK, PHOENIX BOND NO. C.D. #2578904
DATE 12/10/89
BOND AMT. \$ 25,000 CANCELLED _____ ORGANIZATION REPORT X
FILING RECEIPT 2905 LOC. PLAT X WELL BOOK X PLAT BOOK X
API NO. 02-001-20290 DATE ISSUED 1/2/90 DEDICATION NE 1/4

PERMIT NUMBER 871

(over)

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

New Well ☒ Work-Over ☐ Deepen ☐ Plug Back ☐ Same Reservoir ☐ Different Reservoir ☐ Oil ☐ Gas ☒ Dry ☐

DESCRIPTION OF WELL AND LEASE

Operator Chuska Energy Company		Address 315 North Behrend, Farmington, New Mexico 87401	
Federal, State or Indian Lease Number or name of lessor if free lease Black Rock		Well Number 8	Field & Reservoir Black Rock/Paradox
Location 1190' FNL, 1190' FEL		County Apache	
Sec. TWP-Range or Block & Survey 185 T40N R29E			
Date spudded 1-11-90	Date total depth reached 1-30-90	Date completed, ready to produce 3-1-90	Elevation (DF, RKB, RT or Gr.) 6225' GR feet
Total depth 5940' MD	P.B.T.D. 5877'	Single, dual or triple completion? Single	Elevation of casing hd. flange 6225' GR feet
Producing interval (s) for this completion 4,928' - 5,877' Paradox		Rotary tools used (interval) Rotary	Cable tools used (interval)
Was this well directionally drilled? No	Was directional survey made? No	Was copy of directional survey filed? N/A	Date filed N/A
Type of electrical or other logs run (check logs filed with the commission) DLL/SP/GR/Cal, CNL/LDC, Microscan			Date filed 2-28-90

CASING RECORD

Casing (report all strings set in well - conductor, surface, intermediate, producing, etc.)						
Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface	12 1/4"	8 5/8"	24	502'	360	-
Production	7 7/8"	5 1/2"	15.5	5,940'	1,650	-

TUBING RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft)
2 7/8 in.	6,000' ft.	5,900' ft.	in.	ft.	ft.		

LINER RECORD

PERFORATION RECORD				ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD		
Number per ft.	Size & type	Depth Interval		Amt. & kind of material used	Depth Interval	
See Reverse Side				See Reverse Side		

INITIAL PRODUCTION

Date of first production 3-1-90		Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump): Flowing				
Date of test 3-1-90	Hrs. tested 3	Choke size -	Oil prod. during test -	Gas prod. during test 3,140 MCF	Water prod. during test 6 bbls.	Oil gravity °API (Corr)
Tubing pressure 515	Casing pressure 0	Cal'd rate of Production per 24 hrs.	Oil -	Gas 3,140 MCF	Water -	Gas-oil ratio

Disposition of gas (state whether vented, used for fuel or sold):

Vented

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Operations Manager of the Chuska Energy Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Date
3-5-90

AZ OIL & GAS
CONSERVATION COMMISSION

Signature
Donald S. Barnes

MAR 7 1990

Permit No. 871

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Well Completion or Recompletion Report and Well Log
Form No. 4
File One Copy

DETAIL OF FORMATIONS PENETRATED

FORMATION	TOP	BOTTOM	DESCRIPTION*
Upper Ismay	4854	4911	
Lower Ismay	4911	5002	
Desert Creek	5002	5142	
Akah	5142	5298	
Barker Creek	5298	5425	
Pinkerton Trail	5425	5694	
Mississippian	5694	5940	
PERFORATION AND ACIDIZATION RECORD			
Pinkerton Trail	5485	5491	250 gal 28% MSR-100, 1500 gal 28% HCl gelled acid
Barker Creek	5382	5386	}
	5392	5400	} 500 gal 28% MSR-100, 5000 gal 28% HCl gelled acid
	5402	5410	}
Desert Creek	5024	5029	} 250 gal 28% MSR-100, 2000 gal 28% HCl gelled acid
	5048	5052	}
	5074	5078	} 250 gal 28% MSR-100, 2250 gal 28% HCl gelled acid
	5082	5086	}
Lower Ismay	4928	4934	} 800 gal 28% MSR-100, 1200 gal 28% HCl gelled acid
	4978	4982	}
All perforations were @ 2 spf using 4" casing guns with Schlumberger HJ II charges			

* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Gas Conservation Commission not later than thirty days after project completion.

Form No. 4

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other Shut-In

2. Name of Operator
Harken Southwest Corporation

3. Address and Telephone No.
P.O. Box 612007 Dallas, TX 75261-2007 (972) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE/NE Section 18-40N-29E
1190' FNL & 1190' FEL

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
NOG 8707-1142

6. If Indian, Allottee or Tribe Name
Navajo

7. If Unit or CA, Agreement Designation
N/A ?/N 871

8. Well Name and No.
Black Rock #8

9. API Well No.
02-001-20290

10. Field and Pool, or Exploratory Area
Black Rock

11. County or Parish, State
Apache County, AZ

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input checked="" type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Harken Southwest (HSW) request approval to continue a Temporarily Abandon status on the subject wellbore. Current economic evaluations indicate the last remaining useful function for the well is a water injection well.

HSW plans to submit a permit to the EPA, Region 9 Office, in the near future. Previous experience indicates a minimum of one year for processing the permit and obtaining all of the necessary approvals to convert the wellbore to an injector status.

Should additional information be required, please contact Mr. Richard O. Cottle or the undersigned at (972) 753-6900.

CC: State of Arizona
Navajo Nation - Minerals Dept.
BIA - Gallup, NM

14. I hereby certify that the foregoing is true and correct.
Signed Richard O. Cottle Title Production Administrator Date 4/23/98
(This space for Federal or State office use)
Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

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(June 1990)

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BUREAU OF LAND MANAGEMENT

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SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Harken Southwest Corporation

3. Address and Telephone No.
P.O. Box 612007 Dallas, Texas 75261-2007 (972) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE/NE Section 18-40N-29E
1190' FNL & 1190' FEL

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Budget Bureau No. 1004-0135
Expires: March 31, 1993

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NOG 8707-1142

6. If Indian, Allottee or Tribe Name

Navajo

7. If Unit or CA, Agreement Designation

N/A

7/1/87

8. Well Name and No.

Black Rock #8

9. API Well No.

02-001-20290

10. Field and Pool, or Exploratory Area

Black Rock

11. County or Parish, State

Apache Co., AZ

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing

☒ Other Updated site
Security Diagram

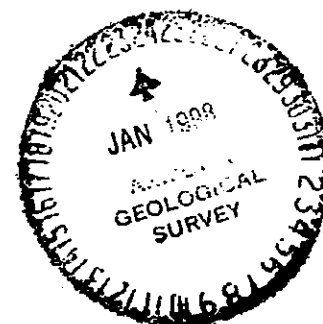
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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Attached you will find the updated site security diagram, for the above referenced lease, as of January 1998.

CC: State of Arizona
Navajo Nation
BIA



14. I hereby certify that the foregoing is true and correct

Signed

(This space for Federal or State office use)

Approved by
Conditions of approval, if any:

Title Production Administrator

Date 01/21/98

Title

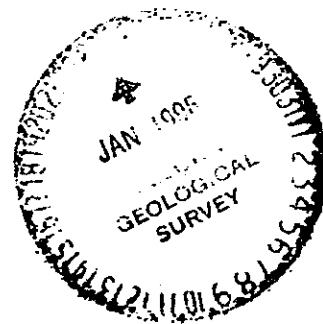
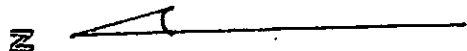
Date

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*See instruction on Reverse Side

PIN 871

PIN 871



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(June 1990)

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DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Harken Southwest Corporation

3. Address and Telephone No.
P.O. Box 612007, Dallas, Texas 75261-2007 (972) 753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
NE/NE Section 18-40N-29E

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

NOG 8707-1142

6. If Indian, Allottee or Tribe Name

Navajo

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Black Rock #8

9. API Well No.
02-001-20290

10. Field and Pool, or Exploratory Area

Black Rock

11. County or Parish, State

Apache, AZ

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<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Shut-In Status</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Swabbing efforts and pressure build-up attempts have proved unsuccessful. Therefore, the Black Rock #8 is shut-in pending engineering evaluation.

CC: State of Arizona
Navajo Nation - Minerals Dept
BIA - Gallup, NM



I hereby certify that the foregoing is true and correct

Signed

Title Production Administrator

Date 08/19/97

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

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Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

HARKEN SOUTHWEST CORPORATION

3. Address and Telephone No.

P.O. Box 612007 Dallas, Texas 75261 214-753-6900

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 18-40N-29E (NE/NE)
1190' FNL & 1190' FEL

FORM APPROVED

Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

NOG 8707-1142

6. If Indian, Allottee or Tribe Name

Navajo

7. If Unit or CA, Agreement Designation

N/A file 871

8. Well Name and No.

Black Rock #8

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02-001-20290

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11. County or Parish, State

Apache Co., AZ

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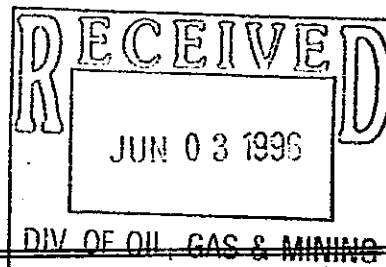
Swabbing the wellbore did not result in reduced fluid levels. Therefore, in an effort to reduce water production and stimulate hydrocarbon production, Harken Southwest performed the following work within the Paradox formation of the wellbore:

Set CIBP @ 5350 to isolate water flow.

Desert Creek & Ismay are still open.

Perforate Akah 5260-68'; 5174-5178'; 5142-46' w/4 JSPF; acidize w/2400 gal 15% HCL. Swab well. Return to production.

cc: State of Arizona
Navajo Nation - Minerals Dept.
BIA - Gallup, NM



I hereby certify that the foregoing is true and correct

Signed

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title Production Administrator

Date 05/29/96

Title

Date

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*See instruction on Reverse Side

AUG 17 '93 08:51 CHUSKA FARMINGTON NM

P.2

Tech:
ULRICH

HALLIBURTON DISTRICT LABORATORY
WATER ANALYSIS DATA SHEET

Analysis Date: 8-16-93

Report No. _____

To:

CHUSKA

Permit 871

Submitted By Chuska Energy Company Date Received 8-16-93

Well Number BLACK ROCK #8

Location NE/4NE/4 18-40N-29E Formation Commingled

water collected from separator dump

Data For Report

Specific Gravity 1.034

pH 6.76

Aliquot or Dilution	Ion	Calculation	ppm
	Fe Log		<u>10</u>
	K %T		
	Na %T		<u>11,600</u>
	Ca		<u>5,663</u>
	Mg		<u>816</u>
	Cl		<u>28,000</u>
	SO4 Log		<u>2,600</u>
	CO3		
	HCO3		<u>629</u>
	TDS		<u>49,308</u>

Rw .19 @ 80 °F

Notice

This report is based on sound engineering practices, but because of variable well conditions and other information which must be relied upon, Halliburton Services makes no warranty, express or implied, as to the accuracy of the data or of any calculations or opinions expressed herein. You agree that Halliburton shall not be liable for any loss or damage whether due to negligence or otherwise arising out of or in connection with such data, calculations or opinions.

BUREAU OF LAND MANAGEMENT

NMSO 10/7/87

REPORT OF UNDESIRABLE EVENT ^{AZOL & GAS}
CONSERVATION COMMISSIONDATE OF OCCURRENCE/DISCOVERY: 1-31-91 TIME OF OCCURRENCE: 1300 HRSDATE REPORTED TO BLM: 1-31-91 TIME REPORTED: 1526 HRSBLM OFFICE REPORTED TO (RESOURCE AREA/DISTRICT OFFICE/OTHER): FARMINGTONLOCATION: SECTION: 18 T. 40N R. 29E MERIDIANCOUNTY: APACHE STATE: ARIZONA WELL NAME: BLACK ROCK #8OPERATOR: CHUSKA ENERGY COMPANYSURFACE OWNERSHIP (FEDERAL/INDIAN/FEE/STATE): NAVAJO TRIBALMINERAL OWNERSHIP (FEDERAL/INDIAN/FEE/STATE): NAVAJO TRIBALLEASE NO.: NOG 8702-1116 UNIT/CA NO.: _____ RIGHT-OF-WAY NO. _____

TYPE OF EVENT, CIRCLE APPROPRIATE ITEM(S):

BLOWOUT, FIRE, FATALITY, INJURY, PROPERTY DAMAGE, OIL SPILL, SALTWATER SPILL,
TOXIC FLUID SPILL, OIL AND SALTWATER SPILL, OIL AND TOXIC FLUID SPILL,
SALTWATER AND TOXIC FLUID SPILL, GAS VENTING, UNCONTROLLED FLOW OF WELLBORE
FLUIDS, OR OTHER (SPECIFY): _____CAUSE OF EVENT: WELL HAD PRODUCED NO MORE THAN 5-10 BBL/DAY FOR LAST 1 1/2
YEARS. PRODUCED MORE THAN 200 BBL OVERNIGHT. OVERFLOWED 210 BBL STOCK TANK.CAUSE AND EXTENT OF PERSONAL INJURIES/CAUSE OF DEATH(S):
NONEEFFECTS OF EVENT: OIL DRAINED OFF LOCATION DOWN ROAD APPROX 2/10 MILE AND ON
HILLSIDE APPROX 2/10 MILE. MOST OF SPILL ON SNOW/FROZEN GROUND.ACTION TAKEN TO CONTROL THE EVENT: SHUT IN WELL. BUILD DIKE ACROSS ROAD TO
PREVENT FURTHER DRAINAGE WHILE CLEANUP OPERATIONS IN PROGRESS.LENGTH OF TIME TO CONTROL EVENT AND SUBSEQUENT CLEAN-UP: IMMEDIATE CONTROL.
CLEANUP OPERATIONS COMMENCED IMMEDIATELY AND WILL BE COMPLETED 2-1-91.
CONTAMINATED SOIL TO BE STOCKPILED ON LOCATION FOR BURIAL IN RESERVE PIT.

VOLUME(S) OF FLUIDS (SPECIFY):

DISCHARGED: 20-25 BBL OIL CONSUMED: _____RECOVERED: 20-25 BBL OILOTHER FEDERAL, STATE, AND LOCAL GOVERNMENT AGENCIES NOTIFIED (INCLUDE NAMES
AND DATE/TIME): ARIZONA OIL AND GAS COMMISSION (1-31-91/1535 HRS), NAVAJO
MINERALS (1-31-91/1542 HRS). MESSAGE FOR NAVAJO EPA (1-31-91/1549 HRS).ACTION THAT HAS BEEN OR WILL BE TAKEN TO PREVENT RECURRENCE: PLACE LARGER
STOCK TANK ON LOCATION. NIGHT PUMPER TO INCLUDE WELL ON ROUNDS EACH NIGHT.SIGNATURE OF OPERATOR (IF REPORT SUBMITTED BY OPERATOR): [Signature]DATE: 2-1-91 TITLE: OPERATIONS ENGINEER

PN871

BUREAU OF LAND MANAGEMENT
AZ OIL & GAS
CONSERVATION COMMISSION
REPORT OF UNDESIRABLE EVENT CHECKLIST
NMSO 10/7/87

DATE OF OCCURRENCE/DISCOVERY: 1-31-91 TIME OF OCCURRENCE: 1300 HRS

DATE REPORTED TO BLM: 1-31-91 TIME REPORTED: 1526 HRS

BLM OFFICE REPORTED TO (RESOURCE AREA/DISTRICT OFFICE/OTHER): FARMINGTON

LOCATION: SECTION: 18 T. 40N R. 29E MERIDIAN

COUNTY: APACHE STATE: ARIZONA WELL NAME: BLACK ROCK #8

OPERATOR: CHUSKA ENERGY COMPANY

SURFACE OWNERSHIP (FEDERAL/INDIAN/FEE/STATE): NAVAJO TRIBAL

MINERAL OWNERSHIP (FEDERAL/INDIAN/FEE/STATE): NAVAJO TRIBAL

LEASE NO.: NOG 8702-1116 UNIT/CA NO.: RIGHT-OF-WAY NO.

TYPE OF EVENT, CIRCLE APPROPRIATE ITEM(S):

BLOWOUT, FIRE, FATALITY, INJURY, PROPERTY DAMAGE, OIL SPILL, SALTWATER SPILL, TOXIC FLUID SPILL, OIL AND SALTWATER SPILL, OIL AND TOXIC FLUID SPILL, SALTWATER AND TOXIC FLUID SPILL, GAS VENTING, UNCONTROLLED FLOW OF WELLBORE FLUIDS, OR OTHER (SPECIFY):

CAUSE OF EVENT: WELL HAD PRODUCED NO MORE THAN 5-10 BBL/DAY FOR LAST 1 1/2 YEARS. PRODUCED MORE THAN 200 BBL OVERNIGHT. OVERFLOWED 210 BBL STOCK TANK.

CAUSE AND EXTENT OF PERSONAL INJURIES/CAUSE OF DEATH(S):
NONE

EFFECTS OF EVENT: OIL DRAINED OFF LOCATION DOWN ROAD APPROX 2/10 MILE AND ON HILLSIDE APPROX 2/10 MILE. MOST OF SPILL ON SNOW/FROZEN GROUND.

ACTION TAKEN TO CONTROL THE EVENT: SHUT IN WELL. BUILD DIKE ACROSS ROAD TO PREVENT FURTHER DRAINAGE WHILE CLEANUP OPERATIONS IN PROGRESS.

LENGTH OF TIME TO CONTROL EVENT AND SUBSEQUENT CLEAN-UP: IMMEDIATE CONTROL. CLEANUP OPERATIONS COMMENCED IMMEDIATELY AND WILL BE COMPLETED 2-1-91. CONTAMINATED SOIL TO BE STOCKPILED ON LOCATION FOR BURIAL IN RESERVE PIT.

VOLUME(S) OF FLUIDS (SPECIFY):

DISCHARGED: 20-25 BBL OIL CONSUMED:
RECOVERED: 20-25 BBL OIL

OTHER FEDERAL, STATE, AND LOCAL GOVERNMENT AGENCIES NOTIFIED (INCLUDE NAMES AND DATE/TIME): ARIZONA OIL AND GAS COMMISSION (1-31-91/1535 HRS), NAVAJO MINERALS (1-31-91/1542 HRS). MESSAGE FOR NAVAJO EPA (1-31-91/1549 HRS).

ACTION THAT HAS BEEN OR WILL BE TAKEN TO PREVENT RECURRENCE: PLACE LARGER STOCK TANK ON LOCATION. NIGHT PUMPER TO INCLUDE WELL ON ROUNDS EACH NIGHT.

SIGNATURE OF OPERATOR (IF REPORT SUBMITTED BY OPERATOR): [Signature]
DATE: 2-1-91 TITLE: OPERATIONS ENGINEER

SUNDRY NOTICES AND REPORTS

1. Name of Operator Chuska Energy Limited
 2. OIL WELL ☐ GAS WELL ☒ OTHER ☐ (Specify) _____
 3. Well Name Black Rock #8 P/N 871
 Location 1190' FN, 1190' FEL
 Sec. 18 Twp. 40N Rge. 29E County _____, Arizona.

4. Federal, State or Indian Lease Name, or lessor's name if fee lease _____
NOG 8702-1116 Navajo Tribal AZ OIL & GAS
CONSERVATION COMMISSION
 5. Field or Pool Name Black Rock MAR 7 1990

6. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO		SUBSEQUENT REPORT OF	
TEST WATER SHUT OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>		ABANDONMENT <input type="checkbox"/>
(OTHER) _____ <input type="checkbox"/>		(OTHER) <u>First sale of gas</u> <input checked="" type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

First delivery of Sales Gas occurred at 1100 hrs, 03-01-90. Flowing at estimated rate of 2,508 Mcfd.

8. I hereby certify that the foregoing is true and correct.

Signed Donald S. Barnes Title Operations Manager Date 3-2-90

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports on Wells
 File One Copy

SUNDRY NOTICES AND REPORTS

Permit # 871

1. Name of Operator Chuska Energy Limited

2. OIL WELL ☐ GAS WELL ☒ OTHER ☐ (Specify) _____

3. Well Name Black Rock #8

Location 1190' FN, 1190' FEL

Sec. 18 Twp. 40N Rge. 29E County _____, Arizona.

4. Federal, State or Indian Lease Name, or lessor's name if fee lease NOG 8702-1116 Navajo Tribal

MAR 7 1990

5. Field or Pool Name Black Rock

AZ OIL & GAS
CONSERVATION COMMISSION

6. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO

SUBSEQUENT REPORT OF

TEST WATER SHUT OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>First sale of gas</u>	ABANDONMENT <input type="checkbox"/>
(OTHER) _____			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

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Signed Donald S. Barnes Title Operations Manager Date 3-2-90

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports on Wells
File One Copy

SUNDRY NOTICES AND REPORTS ON WELLS

AZ OIL & GAS
CONSERVATION COMMISSION

1. Name of Operator Chuska Energy Company
2. OIL WELL ☐ GAS WELL ☒ OTHER ☐ (Specify) FEB 13 1990
3. Well Name Black Rock #8
Location 1190' FNL, 1190' FEL
Sec. 18 Twp. 40N Rgn. 29E County Apache, Arizona.
4. Federal, State or Indian Lease Number, or lessor's name if fee lease NOG 8702-1116

5. Field or Pool Name Black Rock

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>		ABANDONMENT <input type="checkbox"/>
(OTHER) _____		(OTHER) <u>Operations - Casing</u>	<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

1-29-90:

Rigged up and ran 140 joints (5,934.6') 5-1/2", 15.5 lb/ft, K-55, LTC casing, with guide shoe and differential float collar and stage tool at 3,777'. Set at 5,935'.

Cemented as follows:

First stage: 175 sx 35:65 Poz with 6% gel, 0.4% D-112, 1% CaCl₂ and 1/4 lb/sk Celloflake, followed with 500 sx Class 'G' with 3% KCl, 0.6% D-60, 0.2% D-136 and 1/4 lb/sk Celloflake. Opened stage tool. Circulated 4 hrs between stages.

Second stage: 875 sx 35:65 Poz with 6% gel, 0.4% D-112, 1% CaCl₂ and 1/4 lb/sk Celloflake, followed with 100 sx Class 'G' with 3% KCl, 0.6% D-60, 0.2% D-136 and 1/4 lb/sk Celloflake. Cement in place 1548 hrs, 1-29-90.

Procedure witnessed by Steve Rauzi, State of Arizona
Bimal Shrestura/Alfred Peaches, Navajo Nation

8. I hereby certify that the foregoing is true and correct.

Signed Donald S. Barnes Title Operations Manager Date 2-9-90
Donald S. Barnes

Permit No. _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports On Wells
File One Copy
Form No. 25

Chuska Energy - Casing and Cementing Report

pg. 1

Well Name: <u>BLACK ROCK #8</u>	Total Depth <u>5940</u>
Location: <u>SEC 18 T40N R29E</u>	Hole Diameter <u>7 7/8"</u>
Type of Casing String: <u>5 1/2" PRODUCTION</u> (surface, intermediate, ect.)	Number of Stages <u>2</u>
Shoe Depth: <u>5934.62</u>	Stage Collar Depth(s) <u>3777.23</u>
Cementing Company: <u>D-S</u>	

Stage 1
Slurry Preceded with: 20 Bbls FRESH WATER

Lead Slurry Description: 35/65 VOZ w 67. GCL # sks = 175
.47. D-112, 17. CCL, 1/4" SK CELLOFLAKE cu ft = 295.75
 Tail Slurry Description: CLASS "G" # sks = 500
37. KCL, .67. D-60, .27. D-136, 1/4" SK CELLOFLAKE cu ft = 575

Mixing Rate and Pressure: 5.7 bpm 270-130 psi
 Displaced with: 50 Bbls FRESH WATER, 90 Bbls MUD
 Displacement Rate and Pressure: 5.7 - 2.1 bpm, 230-720 psi
 Plug Down (time, pressure): 10:35 am, 1070 psi 1/29/90
 Comments: FLOAT HELD OK.
4 Bbls SLURRY CIRCULATED OUT AFTER STAGE TOOL OPENED.

Stage 2
Slurry Preceded with: 20 Bbls FRESH WATER

Lead Slurry Description: 35/65 PCZ w 67. GCL # sks = 875
.47. D-112, 17. CCL, 1/4" SK CELLOFLAKE cu ft = 1478.75
 Tail Slurry Description: CLASS "G" # sks = 100
37. KCL, .67. D-60, .27. D-136, 1/4" SK CELLOFLAKE cu ft = 115

Mixing Rate and Pressure: 6.2 bpm 210-320 psi
 Displaced with: 91 Bbls FRESH WATER
 Displacement Rate and Pressure: 6.2 - 3.8 bpm 280-860 psi
 Plug Down (time, pressure): 15:48, 1850 psi 1/29/90
 Comments: HELD PRESSURE 5MINS TO CLOSE DV TOOL, HELD OK

Stage 3 N/A
Slurry Preceded with: _____

Lead Slurry Description: _____ # sks = _____
 _____ cu ft = _____
 Tail Slurry Description: _____ # sks = _____
 _____ cu ft = _____

Mixing Rate and Pressure: _____
 Displaced with: _____
 Displacement Rate and Pressure: _____
 Plug Down (time, pressure): _____
 Comments: _____

Chuska Supervisor: _____ date: _____

1/29/98

pg. 2

[illegible]

Chuska Energy - Pipe Tally

Well Name: <u>BLACK ROCK #8</u>		Date: <u>1/28/90</u>				
Location: <u>Sec 18 T40N R29E</u>		By: <u>B.N. GIES</u>				
	(1)	(2)	(3)	(4)	(5)	
1	42.33	40.54	43.04	35.06	43.77	
2	43.70	43.77	43.14	36.47	43.15	
3	43.86	44.02	42.85	43.18	43.70	
4	41.08	40.69	40.85	37.63	42.21	
5	40.95	44.12	43.23	41.49	42.80	
6	39.90	42.26	43.27	43.38	43.83	
7	40.41	40.90	43.32	43.24	43.60	
8	42.47	43.35	43.34	39.40	42.82	
9	39.96	42.37	43.25	40.08	39.22	
0	39.73	42.42	41.00	42.30	44.02	
sub total:	413.19	426.44	427.29	403.53	430.18	
1	43.71	40.15	43.22	43.32	44.18	
2	43.74	41.47	37.97	43.36	38.09	
3	43.61	43.14	41.31	43.39	43.35	
4	44.16	43.35	42.94	41.34	43.26	
5	40.12	40.54	43.27	43.33	42.82	
6	43.55	42.90	39.52	43.24	43.74	
7	43.20	42.92	43.11	40.26	43.76	
8	44.12	43.29	43.30	43.26	38.82	
9	43.78	41.43	43.25	40.37	43.45	
0	43.45	41.00	43.20	39.39	43.79	
sub total:	431.48	420.27	421.30	421.13	425.22	
1	39.16	42.87	43.27	39.44	42.53	
2	40.33	43.25	43.27	43.50	43.32	
3	40.21	43.23	43.33	43.51	43.51	
4	41.64	43.04	42.83	43.78	42.01	
5	43.67	37.34	42.81	43.76	38.76	
6	43.77	43.28	42.83	42.89	44.05	
7	43.09	43.20	43.36	43.58		
8	42.76	43.13	43.30	39.52		
9	40.65	42.52	38.10	43.79		
0	43.81	43.12	42.74	43.75		
sub total:	421.64	424.98	425.84	427.32	255.08	
col total:	1265.31	1271.69	1274.43	1252.03	1110.52	
	CD	WT	GRADE	THREAD	MAKE	LENGTH
col 1	5/8	15.5	K-55 L70C	8RD	USS	1265.31
col 2						1271.69
col 3						1274.43
col 4						1252.03
col 5						1110.52
TOTAL						6173.98

pg. 2

[illegible]

Chuska Energy - Pipe Tally

Well Name: <u>BLACK ROCK #8</u>		:Date: <u>1/11/90</u>				
Location: <u>SEC 18-T40N, R29E</u>		:By: <u>BNG</u>				
	(1)	(2)	(3)	(4)	(5)	
1	44.89					
2	44.88					
3	44.88					
4	40.18					
5	44.90					
6	41.44					
7	44.91					
8	44.84					
9	44.88					
0	44.74					
sub total		440.54				
1	44.90					
*2	38.87					
*3	32.57					
*4	43.14					
5						
6						
7						
8						
9						
0						
sub total		164.48				
1						
2						
3						
4						
5						
6						
7						
8						
9						
0						
sub total						
col total		605.02				
	OD	WT	GRADE	THREAD	MAKE	LENGTH
col 1	8 5/8	24	J55	8RD	IPSCO	440.54
col 2						605.02
col 3						
col 4						
col 5						
					TOTAL	605.02

* JOINTS LEFT OUT

Chuska Energy - Casing and Cementing Report

pg. 1

Well Name: <u>BLACK ROCK #8</u>	Total Depth
Location: <u>Sec 18 T40N R29E</u>	Hole Diameter <u>12 1/4"</u>
Type of Casing String: (<u>surface</u>) intermediate. ect.)	Number of Stages <u>1</u>
Shoe Depth: <u>502'</u>	Stage Collar Depth(s)
Cementing Company: <u>D&S</u>	
Stage 1	
Slurry Preceded with: <u>10 Bbls FRESH WATER</u>	
Lead Slurry Description: <u>GLASS "G"</u>	# sks = <u>360</u>
<u>W 2% CaCl₂ + 1/4#/SK CELLOPLAKS</u>	cu ft = <u>414</u>
Tail Slurry Description: <u>N/A</u>	# sks =
	cu ft =
Mixing Rate and Pressure: <u>3.5 BPM</u>	
Displaced with: <u>29.5 Bbls FRESH WATER</u>	
Displacement Rate and Pressure: <u>4 BPM for 24.5 Bbls, 1.5 BPM for 5 Bbls, 300 psi</u>	
Plug Down (time, pressure): <u>6:30 am, 800 psi</u>	
Comments: <u>FLAT HEAD OK,</u>	
<u>CEMENT TOP APPROX 8' BELOW SURFACE, TOP OFF WITH SLURRY.</u>	
Stage 2	
Slurry Preceded with:	
Lead Slurry Description:	# sks =
	cu ft =
Tail Slurry Description:	# sks =
	cu ft =
Mixing Rate and Pressure:	
Displaced with:	
Displacement Rate and Pressure:	
Plug Down (time, pressure):	
Comments:	
Stage 3	
Slurry Preceded with:	
Lead Slurry Description:	# sks =
	cu ft =
Tail Slurry Description:	# sks =
	cu ft =
Mixing Rate and Pressure:	
Displaced with:	
Displacement Rate and Pressure:	
Plug Down (time, pressure):	
Comments:	
Chuska Supervisor: <u>BN-GIES</u>	date: <u>1/12/90</u>

SUNDRY NOTICES AND REPORTS ON WELLS

AZ OIL & GAS
CONSERVATION COMMISSION

JAN 26 1990

1. Name of Operator Chuska Energy Company
 2. OIL WELL ☐ GAS WELL ☒ OTHER ☐ (Specify) _____
 3. Well Name Black Rock #8
 Location 1190' FNL, 1190' FEL
 Sec. 18 Twp. 40N Rge. 29E County Apache, Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease NOG 8702-1116

5. Field or Pool Name Black Rock

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>		ABANDONMENT <input type="checkbox"/>
(OTHER) _____		(OTHER) <u>Operations - Surface Casing</u>	<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

1-11-90 to 1-12-90

Drilled 12 1/2" hole to 503'. Ran 11 jts 8-5/8" O.D., 24 #/ft, J-55, STC casing and landed at 502'. Cemented with 360 sx Class 'G' cement with 2% CaCl₂ and 1/4 #/sx Floccel. Cement top 8' from surface. Topped up cement to surface and W.O.C. (Cement in place 6:31 a.m. 1-12-90).

8. I hereby certify that the foregoing is true and correct.

Signed *Donald J. Rame*

Title Operations Manager Date 1-16-90

Permit No. 871

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports On Wells
Form No. 25
File One Copy

DOWELL SCHLUMBERGER INCORPORATED

DS-496 PRINTED IN U.S.A

TREATMENT NUMBER

DATE _____

1506-2898

11-12-50

STAGE

DS

mind

Farmington

<div>PS-496 PRINTED IN U.S.A</div>		<div>LOCATION (LEGAL)</div> <div>Sec 18 T40N R29E</div>		<div>RIG NAME:</div> <div>Aztec #124</div>	
<div>WELL NAME AND NO</div> <div>Blackrock #8</div>		<div>FORMATION</div> <div>Blackrock</div>		<div>WELL DATA</div>	
<div>FIELD POOL</div> <div>Blackrock</div>		<div>STATE</div> <div>Ariz.</div>		<div>BOTTOM</div>	
<div>COUNTY/PARISH</div> <div>Apache</div>		<div>API NO.</div>		<div>TOP</div>	
<div>NAME</div> <div>Chuska Energy</div>				<div>TOTAL</div> <div>29'4"</div>	
<div>AND</div>					
<div>ADDRESS</div> <div>315 N Behrend Farmington, NM ZIP CODE 87401</div>					
<div>SPECIAL INSTRUCTIONS</div> <div>Cmt 8 1/2" with white H₂O ahead, followed by 1.5 bbls cmt slurry. Shut down drop plug and drip with 29 1/4 bbls H₂O bump plug 500 psi over, check float</div>					
<div>IS CASING/TUBING SECURED?</div> <div><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</div>					
<div>LIFT PRESSURE</div> <div>207 PSI Casing Weight - Surface Area 1208.2 (3.14 x R²) 58.4</div>					
<div>PRESSURE LIMIT</div> <div>1000 PSI BUMP PLUG TO 1500 PSI</div>					
<div>ROTATE</div> <div><input checked="" type="checkbox"/> RPM RECIPROCAT <input checked="" type="checkbox"/> FT No. of Centralizers 3</div>					
<div>JOB SCHEDULED FOR</div> <div>TIME: A.M. DATE: 1-12-90</div>		<div>ARRIVE ON LOCATION</div> <div>TIME: 0040 DATE: 1-12-90</div>		<div>LEFT LOCATION</div> <div>TIME: 0830 DATE: 1-12-90</div>	
<div>SERVICE LOG DETAIL</div>					
<div>PRE-JOB SAFETY MEETING</div> <div>yes</div>					
<div>Start pumping H₂O</div>					
<div>Start pumping lead Slurry</div>					
<div>Shut down drop plug</div>					
<div>Start displacement</div>					
<div>Lower rate</div>					
<div>Bump plug</div>					
<div>Bleed off pressure</div>					
<div>REMARKS</div> <div>Pressure gauge not recorded</div>					
<div>COMPOSITION OF CEMENTING SYSTEMS</div>					
<div>SYSTEM CODE</div> <div>414661</div>		<div>NO OF SACKS</div> <div>360</div>		<div>YIELD CU. FT/SK</div> <div>1.15</div>	
<div>2</div>		<div>3</div>		<div>4</div>	
<div>3</div>		<div>4</div>		<div>5</div>	
<div>4</div>		<div>5</div>		<div>6</div>	
<div>5</div>		<div>6</div>		<div>SLURRY MIXED BBLS DENSITY</div> <div>73.5 15</div>	
<div>BREAKDOWN FLUID TYPE</div>					
<div>HESITATION SO</div> <div>() RUNNING SO</div>		<div>CIRCULATION LOST</div> <div>() YES () NO</div>		<div>Cement Circulated To Surf. () YES () NO</div>	
<div>BREAKDOWN/1</div> <div>PSI FINAL</div>		<div>DISPLACEMENT VOL.</div> <div>29 1/4 Bbls</div>		<div>TYPE OF WELL</div> <div>() OIL () GAS () STORAGE () INJECTION () BRINE WATER () WILDCAT</div>	
<div>Washed Thru Perfs () YES () NO TO</div>		<div>MEASURED DISPLACEMENT X</div> <div>() WIRELINE</div>		<div>DENSITY</div> <div>MAX. MIN.</div>	
<div>PERFORMANCES</div> <div>TO TO</div>		<div>CUSTOMER REPRESENTATIVE</div> <div>Bruce Gies</div>		<div>DS SUPERVISOR</div> <div>JG Wilbers & Roger W Lewis</div>	

**AZ OIL & GAS
CONSERVATION COMMISSION**

JAN 26 1990

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Chuska Energy Company
 2. OIL WELL ☐ GAS WELL ☒ OTHER ☐ (Specify) _____
 3. Well Name Black Rock #8
 Location 1190' FNL, 1190' FEL
 Sec. 18 Twp. 40N Rge. 29E County Apache, Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease NOG 8702-1116

5. Field or Pool Name Black Rock

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Drilling - Spud</u>	ABANDONMENT <input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Spudded at 8:00 p.m. on January 11th, 1990. Drilling 12-1/4" hole. Donald S. Barnes to BLM.

Steve Rauzi, of the State of Arizona, witnessed this procedure.

8. I hereby certify that the foregoing is true and correct.

Signed Donald S. Barnes Title Operations Manager Date 1-16-90

Permit No. 871

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
 Form No. 25
 File One Copy

OBSERVATION REPORT OF S. L. RAUZI *SLR*
ON BLACK ROCK #8
1,190 FNL & 1,190 FEL SEC 18-40N-29E

CASING AND CEMENTING, 1-12-90, early morning

Ran 8 5/8 inch casing to 502 feet.
Cemented with 360 sacks - did not circulate.
Lowered chain into hole and found top of cement about 8 feet below surface.
Cemented to surface with 2 inch hose lowered into hole.

BOPE, 1-12-90, evening

Test casing, casing head, kill line, choke (manifold) line, manifold,
and BLIND RAMS at 950 PSI for 30 minutes and they held pressure.
Test PIPE RAMS at 750 PSI for 30 minutes and they held pressure.
Tested inside & outside choke line valves and inside & outside kill
line valves at 750 PSI and they held pressure.
Tested the KELLY COCK at 900 PSI and it held pressure.
Tested operation of FLOOR SAFETY (STABBING) valve and it worked okay.

PRODUCTION CASING, 1-29-90, day

Ran 5 1/2 inch to 5935 feet with stage tool at 3785 feet.
Cemented FIRST STAGE with 675 sacks.
Circulated 4 hours between stages - circulated about 4 BBLs of cement.
Cemented SECOND STAGE with 975 sacks - circulated about 50 BBLs of cement.

WATER ANALYSIS REPORT

*Don't enter analysis
fill*



DATE: 17 November 1989
TO: Chuska Energy Company
315 N. Behrend
Farmington, NM 87401
Attn: Tom McCarthy

PAGE:
LAB NO.:

TECH, Inc.
333 East Main
Farmington
New Mexico
87401
505/327-3311

Sample From Blackrock
Env. water

Date Sampled 11/10/89 Sampled
Time Sampled By

PARAMETER	mg/l	me/l	PARAMETER	mg/l	me/l
Acidity (CaCO ₃)			Arsenic		
Alkalinity (CaCO ₃)			Barium		
Bicarbonate			Boron		
Carbonate			Cadmium		
Hydroxide			Calcium		
Chloride			Chromium, Hex		
Chlorine, Free			Total		
Total			Iron, Dissolved		
Fluoride			Total		
Nitrogen, Total			Lead		
Nitrate (N)			Magnesium		
Ammonia (N)			Mercury		
Phosphate, Ortho			Potassium		
Total			Selenium		
Sulfur, Sulfate			Silver		
Sulfide			Sodium		
BOD ₅			Gross Alpha	21+/-14	
COD			Gross Beta	54+/-7	
Hardness (CaCO ₃)		gr.			
Oil & Grease					
Oxygen, Dissolved					
Phenols					
Solids, Total					
Dissolved					
Suspended					
Settleable		ml/l			
Conductivity		umhos/cm			
pH		units			
Turbidity		NTU			

Date
Received 11/10/89 Preserved?

Date
Analyzed 11/13/89


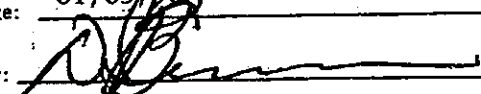
Analyzed
By CEP

REMARKS:

AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC, AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS, AND AUTHORIZATION FOR PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL.

TECH, Inc.

by

APPLICATION FOR PERMIT TO DRILL OR RE-ENTER			
APPLICATION TO DRILL <input checked="" type="checkbox"/> AZ OIL & GAS CONSERVATION COMMISSION		RE-ENTER OLD WELL <input type="checkbox"/>	
OCT 23 1989			
NAME OF COMPANY OR OPERATOR			
Chuska Energy Company			
Address	315 N. Behrend	City	Farmington State N.M.
Drilling Contractor			
(To Be Determined)			
Address			
DESCRIPTION OF WELL AND LEASE			
Federal, State or Indian Lease Number, or if fee lease, name of lessor	Well number	Elevation (ground)	
NOG 8702-1116	Black Rock 8	6225' GR	
Nearest distance from proposed location to property or lease line:	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease:		
1,190 feet	6,011 feet		
Number of acres in lease:	Number of wells on lease, including this well, completed in or drilling to this reservoir:		
50,000	4		
If lease, purchased with one or more wells drilled, from whom purchased:	Name	Address	
	N/A		
Well location (give footage from section lines)	Section—township—range or block and survey	Dedication (Comply with Rule 105)	
1190' FNL x 1190' FEL	Sec. 18, T40N, R29E		
Field and reservoir (if wildcat, so state)	County		
Black Rock Paradox	Apache		
Distance in miles, and direction from nearest town or post office			
7 miles west-southwest of Teec Nos Pos, Arizona			
Proposed depth:	Rotary or cable tools	Approx. date work will start	
5974'	Rotary	1-1-1990	
Bond Status Pending	Organization Report	Filing Fee of \$25.00	
Amount \$25,000	On file Or attached	Attached	
Remarks:			
Primary zone is intended to be the Paradox Formation. If the Paradox appears to be productive, the well will TD @ 6110'. If the Paradox is not productive, the well will be deepened to 6440' for use as a SWD well.			
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the <u>Operations Manager</u> of the <u>Chuska Energy Company</u> (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.			
 Signature			
10-18-89 Date			
Permit Number: 871	STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Application to Drill or Re-enter File Two Copies		
Approval Date: 01/03/90	Approved By:  Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.		
Form No. 3			

1. Operator shall outline the dedicated acreage for *both* oil and gas wells on the plat.
2. A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
3. ALL DISTANCES SHOWN ON THE PLAT MUST BE FROM THE OUTER BOUNDARIES OF THE SECTION.
4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES ☒ NO ☐.
5. If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES ☐ NO ☐. If answer is "yes," Type of Consolidation _____
6. If the answer to question four is "no," list all the owners and their respective interests below:

Owner	Land Description

CERTIFICATION

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Name: Edgar L. Risenhoover

Position: Operations Manager

Company: Chuska Energy Company

Date: 10-18-89

I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: 8-17-89

Registered Professional Engineer and/or Land Surveyor

Edgar L. Risenhoover

Certificate No. _____

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement	Type
8 5/8	24#	K-55 STC	0	500	500 to Surface	360 sks	Class 'G'
5 1/2	15.5	K-55 STC	0	5974	5974 to 500	872 sks	Class 'G'

STATE OF ARIZONA
OIL AND GAS CONSERVATION COMMISSION

PERMIT NO. 871

REPORT ON PROPOSED OPERATIONS

Chuska Energy Company
315 N. Behrend
Farmington, NM 87401

Phoenix, Arizona
January 2, 1990

Your proposal to drill well Black Rock No. 8 A.P.I. No. 02-001-20290
Section 18, T. 40N., R. 29E., G&SR B. & M., Black Rock field, Apache County,
dated 10/18/89 received 10/23/89 has been examined in conjunction with records filed
in this office.

THE PROPOSAL IS APPROVED PROVIDED:

1. THIS WELL SHALL NOT BE USED FOR SALT WATER DISPOSAL UNLESS AUTHORIZED BY THE COMMISSION AFTER NOTICE AND HEARING PURSUANT TO RULE 12-7-176.
2. Mud pits are constructed and lined in a manner that will prevent contamination of surface or subsurface waters.
3. Drilling mud consistent with sound drilling practices shall be used at all times and sufficient amounts of lost circulation material shall be available at the drill site.
4. The well shall be cased and cemented in such a manner that will protect all zones that contain oil, gas, or fresh water.
5. Blowout prevention equipment shall be installed, tested, and maintained in a manner necessary to assure well control throughout the drilling, completion, or abandonment of the well.
6. An H₂S safety company shall be on location from 4000' to T.D.
7. Sundry reports shall be filed as required.
8. Two sets of samples of all cores and cuttings shall be taken at a maximum interval of ten feet. One set each shall be shipped prepaid to:
 - a. Oil & Gas Commission, 5150 N. 16th St., Ste. B141, Phoenix, AZ 85016.
 - b. Arizona Geological Survey, 845 N. Park Ave., Tucson, AZ 85719.
9. Samples and all logs and surveys of any description shall be filed within 30 days after the removal of the rig from the hole.
10. Application to Plug and Abandon (Form 9) shall be submitted to the Commission for approval prior to the beginning of operations to plug the well.
11. THIS COMMISSION SHALL BE NOTIFIED:
 - a. Immediately when drilling operations commence.
 - b. In time to witness the running and cementing of the surface casing.
 - c. In time to witness pressure testing of BOPE prior to drilling out of the surface casing.
 - d. In time to witness plugging and abandonment operations.

To witness operations, call 602-255-5161.

After office hours notify: Steve Rauzi, 602-864-9148 or Dan Brennan, 602-971-2909.

C.D. # 2578904, Valley National Bank

By D. J. Brennan
D. J. Brennan, Executive Director

A COPY OF THIS REPORT AND THE PROPOSAL MUST BE POSTED AT THE DRILLER'S STATION PRIOR TO COMMENCING OPERATIONS.

RECORDS FOR WORK DONE UNDER THIS PERMIT ARE DUE WITHIN 30 DAYS AFTER THE WORK HAS BEEN COMPLETED OR THE OPERATIONS HAVE BEEN SUSPENDED.



PERMIT TO DRILL

This constitutes the permission and authority from the
OIL AND GAS CONSERVATION COMMISSION,
STATE OF ARIZONA,

To: CHUSKA ENERGY COMPANY
(OPERATOR)

to drill a well to be known as

Black Rock #8
(WELL NAME)

located 1190' FNL x 1190' FEL

Section 18 Township 40N. Range 29E. Apache County, Arizona.

The NE $\frac{1}{4}$ of said
Section, Township and Range is dedicated to this well.

Said well is to be drilled substantially as outlined in the attached Application and must be drilled
in full compliance with all applicable laws, statutes, rules and regulations of the State of Arizona.

Issued this 2 day of January, 1990.

OIL AND GAS CONSERVATION COMMISSION

By [Signature]
EXECUTIVE DIRECTOR

PERMIT 00071

RECEIPT NO.

A.P.I. NO. 02-001-20290

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

BLACK ROCK 1-18-40N29E WELL NO. 8
SECTION 18, TOWNSHIP 40N, RANGE 29E
1190' FNL, 1190' FEL
APACHE COUNTY, ARIZONA

1. SURFACE FORMATION

The geological name of the surface formation is the Morrison.

2. ELEVATION

The surface elevation is 6225' GR / 6237' KB.

3. ESTIMATED FORMATION TOPS

<u>Depth</u>	<u>Formation</u>	<u>Sub Sea Elevation</u>
Surface		+ 6237'
1515'	Chinle	+ 4722'
2525'	De Chelle	+ 3712' Water
2893'	Organ Rock	+ 3344'
3535'	Cutler	+ 2702'
4255'	Hermosa	+ 1982'
4848'	Ismay	+ 1389' Gas
4907'	Lower Ismay	+ 1330' Gas
4994'	Desert Creek	+ 1243' Gas
5131'	Akah	+ 1106' Gas/Water
5294'	Barker Creek	+ 953' Gas
5410'	Pinkerton Trail	+ 827' Gas
5606'	Molas	+ 631'
5670'	Mississippi	+ 567'
5825'	Mississippi Dolomite	+ 412'
5934'	Ouray	+ 303'
5974'	Total Depth	+ 263'

Note: Well will T.D. at 5646'. If Paradox appears unproductive the well will be deepened to T.D. at 5974' for use as SWD well in the Mississippi Dolomite.

4. PROPOSED CASING/CEMENTING PROGRAM

	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Coupling</u>
Surface:	8 5/8"	24 lb/ft	K-55	STC
Production:	5 1/2"	15.5 lb/ft	K-55	STC

Surface Cementing:

360 sx Class G cement with 2% CaCl_2 , & 1/4#/sx Celloflake.
Weight 15.8 ppg, yield 1.15 ft^3/sx .

Production Cementing:

First Stage

T.D. to 3200'. Lead with 113 sx 35:65 POZ cement with 6% Gel, .5% D-127 Flac, 1% CaCl_2 , 1/4#/sx Celloflake. Tail with 486 sx Class G, 3% KCL, .6% D-60 Flac, 1/4#/sx Celloflake.

Second Stage

3200' to surface casing shoe. 304 sx 35:65 POZ cement with 6% Gel, .5% D-127 Flac, 1% CaCl_2 , 1/4#/sx Celloflake.

SWD Cementing

DV Tool at 3800'

First Stage

TD to 3800'. Lead with 282 sx 35:65 POZ cement with 7% Gel, .5% D-127 Flac, 1% CaCl_2 , 1/4#/sx Celloflake. Tail with 160 sx Class G, 3% KCL, .6% D-60 Flac, 1/4#/sx Celloflake.

Second Stage

3800' to Surface Casing Shoe. 429 sx 35:65 POZ cement with 7% Gel, .5% D-127 Flac, 1% CaCl_2 , 1/4#/sx Celloflake.

All cement volumes will be recalculated after examination of caliper log.

5. BLOWOUT PREVENTER (See attached schematics)

As no abnormal pressures are anticipated, a 2000 psi BOP system would be sufficient for the drilling of this well. However, due to availability constraints, a 3000 psi system will be used, as per the attached Exhibits "A" and "B". This will be a 10" x 900 Series double ram preventer, equipped with a set of pipe and blind rams.

An accumulator system, with a pressure capacity sufficient to operate the rams three complete cycles without rig power, will be required by the contractor.

6. PROPOSED MUD PROGRAM

Surface to 3500'

Native solids, weight 8.3-8.7 ppg, with gel sweeps as necessary to clean hole.

3500' to Total Depth

Low solids non dispersed system with Polymer. 8.6 - 8.8 ppg. Fluid loss 15 CC's or less. Fluid loss will be 10 CC's or less drilling across Paradox Zone.

7. AUXILIARY EQUIPMENT

- A. A kelly cock will be utilized while drilling this well, with handle available on the rig floor.
- B. Floor (stabbing) valves will be available, on the rig floor at all times, with necessary subs to fit all of the drilling assemblies.
- C. Mud will be used to drill this well. No abnormal pressures are expected. A mud logging unit will be utilized while drilling this hole.

8. WELL EVALUATION

Open hole electric logging program will consist of a minimum of dual lateral log, SP, Gamma Ray, Caliper, FDC-CNL Lithodensity from TD to 4000'.

Drill stem testing will be as per well site geologist's recommendations, based on shows. A mud logging unit will be utilized during drilling.

9. ABNORMAL PRESSURES/GAS

No abnormal pressures are anticipated. Monitoring of gas and hydrocarbon shows will be by wellsite mud logging unit. An H₂S safety company will be on location from 4000' to T. D.

10. TIMING

The drilling and evaluation of this well will take 18 days. Anticipated spud date is 1-1-90.

DETAILED DRILLING PROGRAM

BLACK ROCK NO. 8

DATE: October 6, 1989

WELL NAME: Black Rock 1-18-40N29E WELL NO: 8

LOCATION: 1190' FNL, 1190' FEL
Section 18, Township 40N, Range 29E
Apache County, Arizona

ELEVATION: 6225' GR / 6237' KB

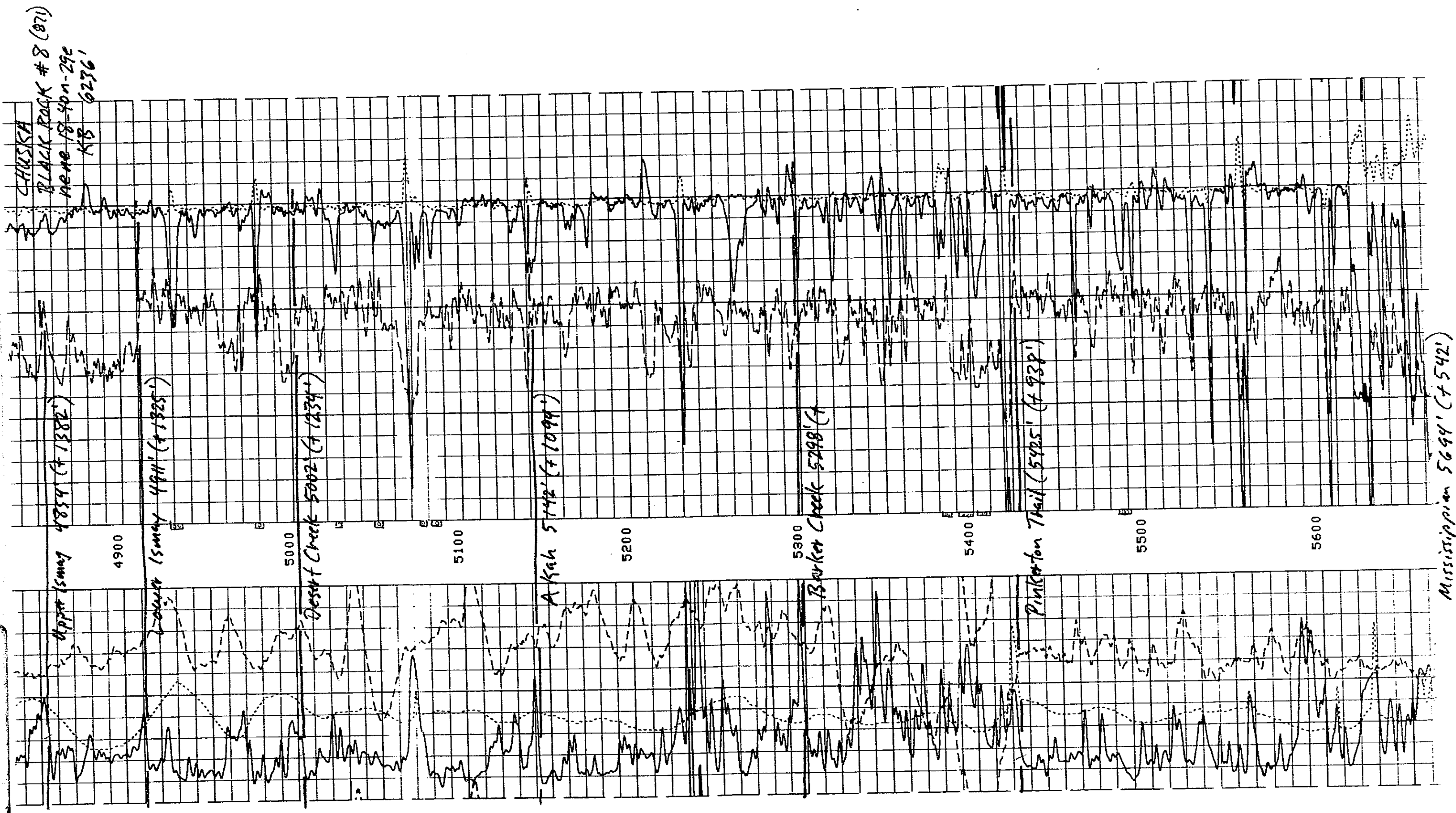
TOTAL DEPTH: 5646' if Paradox is productive; 5974' if a SWD well.

PROJECTED HORIZON: Molas Shale at 5646', Ouray at 5974'

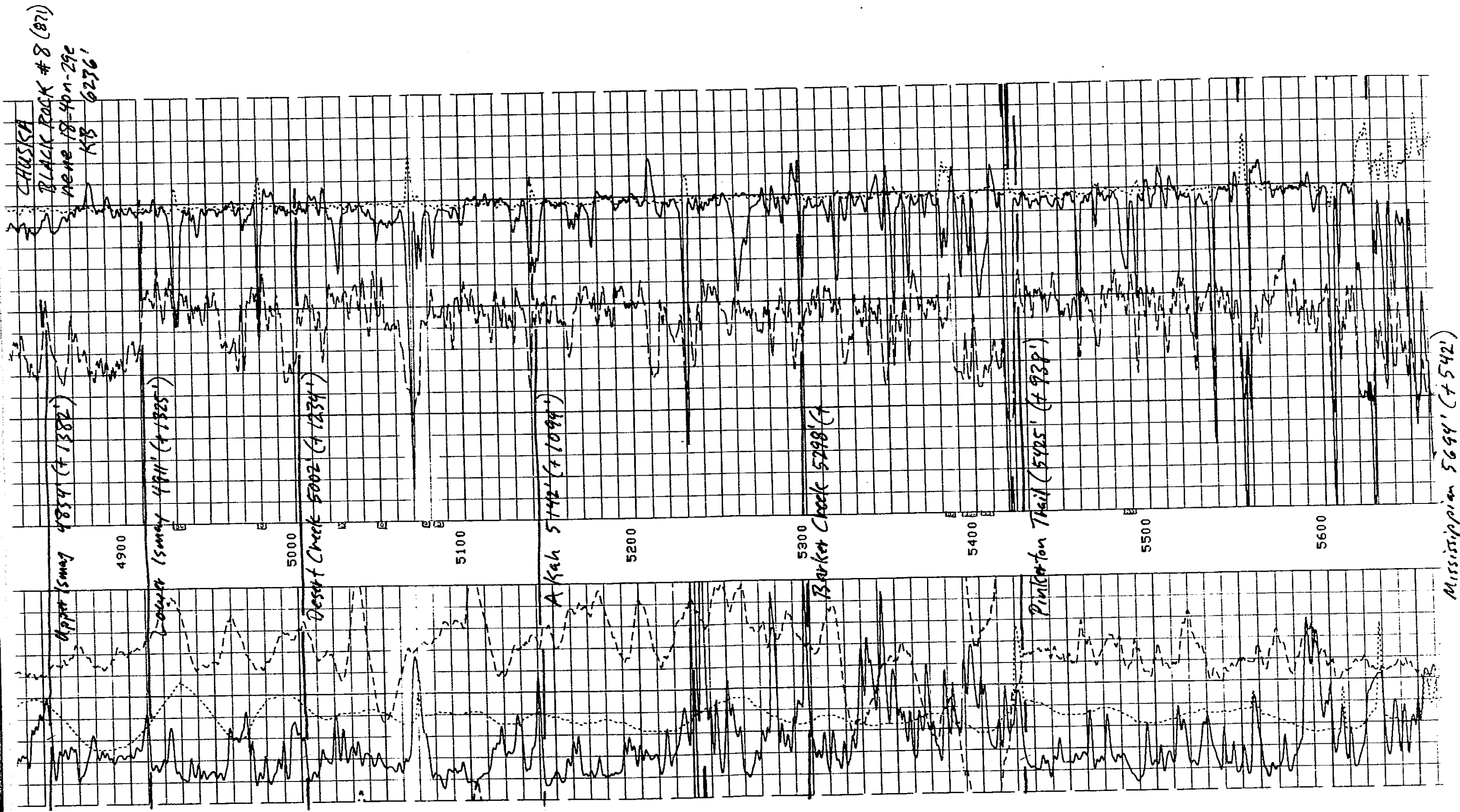
DRILLING, CASING AND CEMENTING PROGRAM

1. Move in rotary tools and notify BLM of intent and time of spud.
2. Rig up rotary tools. Drill mouse hole and rat hole. Mix mud prior to spudding well.
3. Drill 12 1/4" hole to 500 +/- . Use cellar jet to remove mud and cuttings from hole. Surveys will be taken on wire line to ensure deviation control. Use fresh water gel/chemical mud for drilling surface hole. Run 8 5/8" surface casing to T.D. Displace casing with mud prior to cementing. Reciprocate casing prior to cementing.
4. Cement with sufficient volume to circulate cement to surface, as per surface cementing program detailed in 10-point drilling plan.
5. W.O.C. a minimum of 4 hours prior to nipping up BOP stack and related equipment. See BOP schematics for details. Minimum total T.O.C. time is 12 hours.
6. Pressure testing of BOP and casing will be to 600 psig for 30 minutes. Pressure test manifold and all related equipment prior to drilling shoe joint.
7. Reduce hole to 7 7/8". Drill to T.D. at 5646'.

8. Open hole logs will be run and evaluated. Drill stem testing will be as per wellsite geologist's recommendation. If well is commercial, 5 1/2" casing will be run to T.D.
9. If well is not commercial, drilling will continue to a T.D. at about 5974', open hole logs will be run and evaluated over zones from T.D. up to about 5600' to determine if use of the well for SWD is possible.
10. Cement will be in two stages. Cement as per production or SWD cementing program in 10-point drilling plan. W.O.C. and circulate between stages 4 hours.
11. Remove BOP, set slips, cut off casing, install well head and release drilling rig.
12. If well is non-productive it will be plugged and abandoned as per State, BLM and Navajo Tribal stipulations.



Chuska Energy Co., Black Rock #8
18-40N-29E, NE NE
#871



CHUSKA - NEHE 18-40N-29E - BLACK ROCK #8
#871

BLACK ROCK FIELD

Operator: RIM Southwest Corporation

Bond Company*: Indian lands, evidence of bond posted with BIA

RLI Insurance Co. \$150,000 BIA Nationwide Bond No. RLB0003993

Date of Bond: 11/26/01

Date approved: _____

*** Pursuant to Commission motion of October 31, 1997, no bond required with State of Arizona upon evidence of bond posted with the BIA.**

Permits covered by this bond posted with the BIA:

Dry Mesa Field	<u>077</u>
	<u>106</u>
	<u>115</u>
	<u>852</u>
	<u>907</u>

Black Rock Field	<u>559</u>
	<u>581</u>
	<u>868</u>
	<u>871</u> ✓
	<u>875</u>
	<u>882</u>



Jane Dee Hull
Governor

State of Arizona
Arizona Geological Survey
416 W. Congress, Suite 100
Tucson, Arizona 85701
(520) 770-3500



Larry D. Fellows
Director and State Geologist

February 13, 2001

CERTIFIED MAIL

Mr. Robert L. Vesco
Vice-President
RIM Southwest Corporation
5 Inverness Drive East
Denver CO 80112

Re: Release of State-wide Performance Bond CD #2578904

Dear Mr. Vesco:

This will acknowledge evidence of RIM Southwest Corporation's bonding with the U.S. Department of the Interior, Bureau of Indian Affairs. As a result, the referenced certificate of deposit and executed release form are enclosed.

Sincerely,

A handwritten signature in cursive script, reading "Steven L. Rauzi".

Steven L. Rauzi
Oil & Gas Administrator

Enclosures

SECURITIES SAFEKEEPING

1700 WEST WASHINGTON ST. - PHOENIX, ARIZONA 85007

DATE: 02/05/01

STATE AGENCY NO. _____

STATE AGENCY ARIZONA GEOLOGICAL SURVEY/OIL&GAS COMM.

State Treasurer's Use Only

COMPANY CHUSKA ENERGY CO. / Harken Southwest Corp.

1850 MT DIABLO BLVD STE 640

WALNUT CA 94500

DOMESTIC

FOREIGN

DEPOSIT

C.D. NO.:

BANK:

MATURITY DATE:

INTEREST RATE:

%

AMOUNT \$

C.D. ASSIGNMENT MUST BE ATTACHED UNLESS C.D. IS PAYABLE TO STATE TREASURER

RELEASE

C.D. NO.: 2578904

ACCT NO.: 8272-4968

BANK: VALLEY NATIONAL BANK OF ARIZONA

MATURITY DATE: 05/30/90

INTEREST RATE: 7.30 %

AMOUNT \$ 25,000.00

STATE TREASURER VALIDATION NO. _____

RECEIVED THE ABOVE RELEASE

STATE AGENCY AUTHORIZATION

BY Larry D. Teller 05 Feb 01
Authorized Signature Date

BY Larry D. Teller 05 Feb 01
Authorized Signature

ARIZONA GEOLOGICAL SURVEY
Bank or Firm

STATE TREASURER AUTHORIZATION
BY Katherine Liberton
Authorized Signature

FOR BANK USE ONLY

BANK AUTHORIZATION

Checked by

Verified by

BY _____
Authorized Signature

STATE'S DEPOSITORY BANK



Jane Dee Hull
Governor

State of Arizona
Arizona Geological Survey

416 W. Congress, Suite 100
Tucson, Arizona 85701
(520) 770-3500



Larry D. Fellows
Director and State Geologist

February 5, 2001

Ms. Debby Harrington
RIM Southwest Corporation
5 Inverness Drive East
Denver CO 80112

Dear Ms. Harrington:

This will acknowledge receipt of documentation of name change,
Organization Report (Form 1) and updated Operator's Certificate of Compliance and
Authorization to Transport Oil or Gas from Lease (Form 8).

I have enclosed approved duplicate originals of Form 8 for your files.

Sincerely,

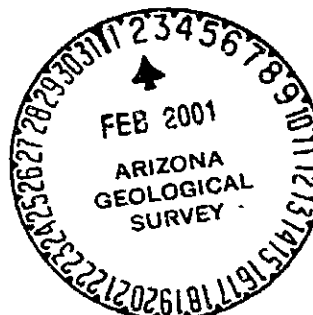
Steven L. Rauzi
Oil & Gas Administrator

Enclosures

RIM SOUTHWEST CORPORATION
5 INVERNESS DRIVE EAST
ENGLEWOOD, COLORADO 80112
303-799-9828

January 30, 2001

Mr. Steven Rauzi
Oil & Gas Program Administrator
Arizona Geological Survey
416 W. Congress, #100
Tucson, AZ. 85701



Re: RIM Southwest Corporation

Dear Mr. Rauzi,

As you requested, please find an Organization Report and documentation evidencing the name change from Harken Southwest Corporation for RIM Southwest Corporation.

Also enclosed is Form 8, in duplicate, for NOG 8707-1139, NOG 8707-1140 and NOG 8707-1142.

Please call me at (303) 799-9828, extension 305, if you have any questions or need anything further. Thank you for your assistance.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Debby Harrington".

Debby Harrington
Senior Landman

The RIM Companies
5 Inverness Drive East
Englewood, Colorado 80112
303-799-9828
Fax 303-799-4259
E-Mail: rvesco@rimop.com



January 25, 2001

Mr. Steven Rauzi (520) 770-3500
Oil & Gas Program Administrator Fax (520) 770-3505
Arizona Geological Survey
416 W. Congress, #100
Tucson, AZ. 85701

RE: Bonding for RIM Southwest Corporation

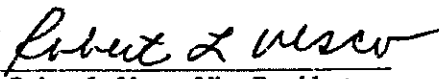
Dear Mr. Rauzi:

Enclosed please a copy of the approval letter dated May 18, 2000, from the United States Department of the Interior, Bureau of Indian Affairs for RIM's \$150,000 nationwide bond.

Additionally, RIM Southwest Corporation, (formerly known as Harken Southwest Corporation) has a \$25,000 certificate of deposit, certificate # 2578904, with the State of Arizona, maturing April 2, 2001. Please take the necessary action to release this certificate of deposit.

If you need any further information regarding the above referenced information, please contact me at extension 206. Thank you for your help.

Sincerely yours,


Robert L. Vesco, Vice-President
Secretary/Treasurer

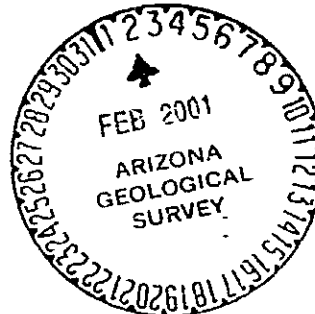
The RIM Companies
5 Inverness Drive East
Englewood, Colorado 80112
303-799-9828
Fax 303-799-4259
E-Mail: rvesco@rimop.com



Oil & Gas
Acquisitions & Management
Rocky Mountains / Texas

January 25, 2001

Mr. Steven Rauzi
Oil & Gas Program Administrator
Arizona Geological Survey
416 W. Congress, #100
Tucson, AZ. 85701



RE: Name Change of Harken Southwest Corporation

Dear Mr. Rauzi:

Enclosed please find the State of New Mexico filed copy of "Articles of Amendment to the Articles of Incorporation" changing "Harken Southwest Corporation's" name to "RIM Southwest Corporation" ("RIM"). The corporation's federal tax identification number has not changed (85-0284260). RIM's address is 5 Inverness Drive East, Englewood, Colorado 80112.


Additionally, the officers of RIM Southwest Corporation are as follows:

President	Stephen W. Rector
Vice President	Rene' Morin
Vice President	William J. Holcomb
VP, Secretary/Treasurer	Robert L. Vesco

Additionally, enclosed is a copy of RIM Operating, Inc. and RIM Offshore, Inc.'s "United States Department of the Interior, Bureau of Indian Affairs, Nationwide Oil and Gas Bond Number RLB0001937" in the amount of \$150,000, along with Bond Rider to Assume Liability Number 1 and RLI Insurance Company's Power of Attorney. With your concurrence, RIM would like to add RIM Southwest Corporation as an additional principal to this bond. Please coordinate with us regarding this matter.

If you need any further information regarding the above referenced information, please contact me at extension 206.

Sincerely yours,


Robert L. Vesco, Vice-President
Secretary/Treasurer

Operator CHUSKA ENERGY COMPANY

Bond Company VALLEY NATIONAL BANK ARIZONA Amount \$25,000

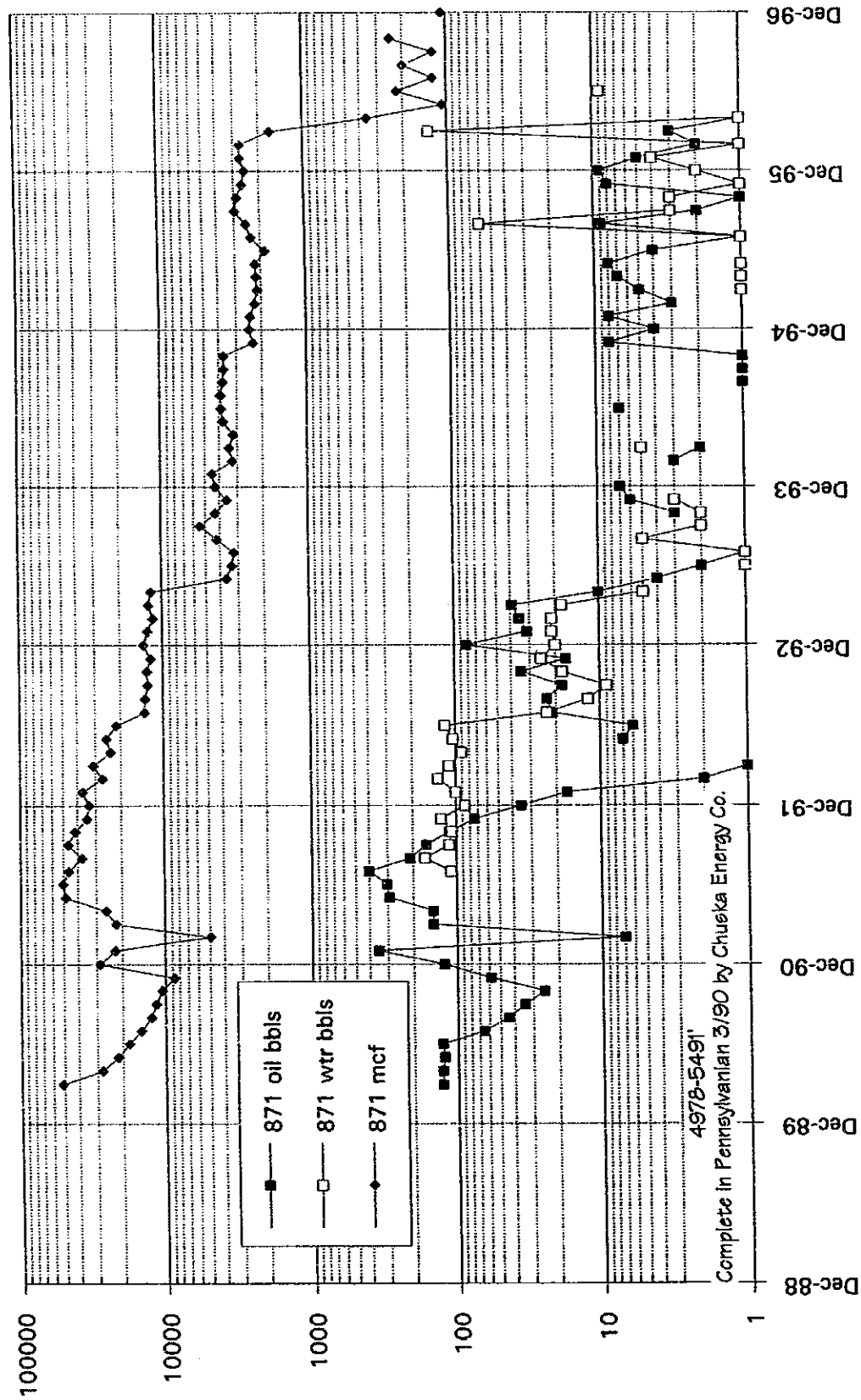
Bond No. C.D. #2518906 Date Approved 12/01/89

CANCELLED
Permits covered by this bond:

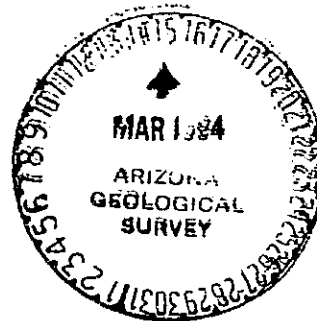
DATE	
	559
	581
	610 (P & A 11-21-95)
	615 (P & A 5/10/91)
	868
	869 expired
	870 (J & A 5/90)
	871
	872 expired
	873 (P & A 8/4/93)
	874 expired
DATE	875
	881

CANCELLED

MONTHLY PRODUCTION AT 8 BLACK ROCK (871), ARIZONA: MAR 1990 - DEC 1996
 ne ne 18-40n-29e, Black Rock Field, Apache County



HARKEN
ENERGY
CORPORATION



March 11, 1994

State of Arizona
Oil & Gas Conservation Commission
845 N. Park Avenue, Suite 100
Tucson, AZ 85719

871

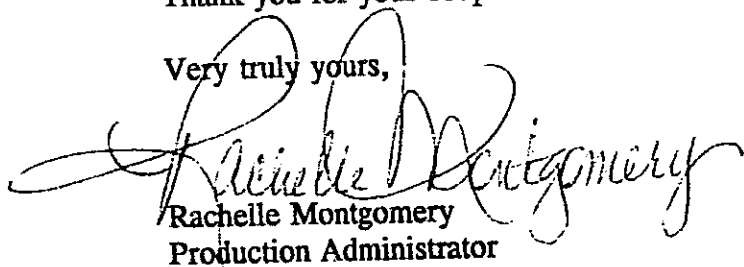
Re: NOG 8702-1139
NOG 8702-1140
NOG 8702-1142
Black Rock Well No.'s 1, 3, 5, 8 and 12

Gentlemen:

Please be advised that Harken Southwest Corporation no longer has a Farmington, New Mexico office. Therefore, please direct all future correspondence, regarding regulatory issues, to the undersigned at the letterhead address.

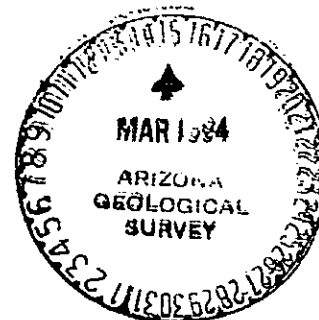
Thank you for your cooperation.

Very truly yours,


Rachelle Montgomery
Production Administrator

RM/jkw

HARKEN
ENERGY
CORPORATION



March 11, 1994

State of Arizona
Oil & Gas Conservation Commission
845 N. Park Avenue, Suite 100
Tucson, AZ 85719

871

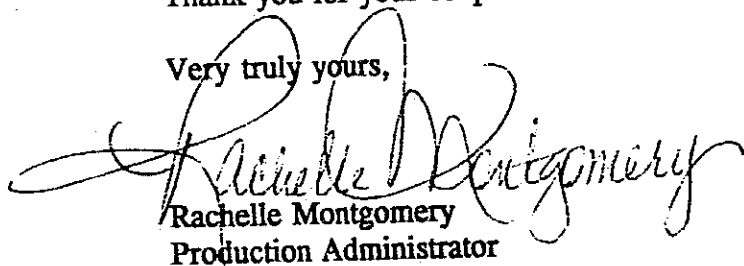
Re: NOG 8702-1139
NOG 8702-1140
NOG 8702-1142
Black Rock Well No.'s 1, 3, 5, 8 and 12

Gentlemen:

Please be advised that Harken Southwest Corporation no longer has a Farmington, New Mexico office. Therefore, please direct all future correspondence, regarding regulatory issues, to the undersigned at the letterhead address.

Thank you for your cooperation.

Very truly yours,


Rachelle Montgomery
Production Administrator

RM/jkw



HARKEN SOUTHWEST CORPORATION

(formerly Chuska Energy Company)

March 2, 1994



Mr. Steven Rauzi
Oil & Gas Program Administrator
Arizona Geological Survey
845 Northpark Ave., Suite 100
Tucson, Arizona 85719

Re: Chuska Energy Company-Arizona Statewide Bond for Drilling of Wells

Dear Mr. Rauzi:

Please be advised that with regard to the above referenced bond we are herewith enclosing documentation relating to a name change. Chuska Energy Company has now changed its name to Harken Southwest Corporation. Copies of the official documentation relating to this change of name are enclosed. We would appreciate the Arizona Geological Survey changing their records to style the above referenced bond as follows:

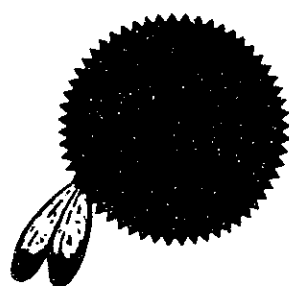
Harken Southwest Corporation, formerly Chuska Energy Company

Sincerely

HARKEN SOUTHWEST CORPORATION

Dale Brooks
Treasurer

DB:le
Enclosures
cc: Bruce N. Huff



HARKEN SOUTHWEST CORPORATION

(formerly Chuska Energy Company)

January 23, 1994

We are pleased to announce that Chuska Energy Company has changed its name to Harken Southwest Corporation. This is in line with the February, 1993 merger with Harken Exploration Company.

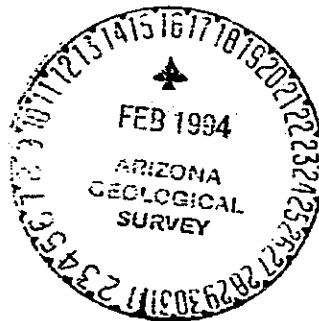
Harken Southwest Corporation will continue to be located at 3315 Bloomfield Highway, Farmington, New Mexico 87401. Our telephone number will remain (505) 326-5525.

Please reflect this name change on all future correspondence.

Thank you for your assistance in this matter. We look forward to working with you as Harken Southwest Corporation.

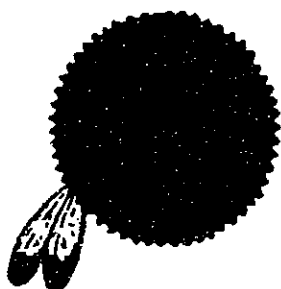
Sincerely,

BARRY A. WIELAND
Operations Manager



AUG 17 '93 09:51 CHUSKA FARMINGTON NM

P.1



CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

FAX COVER LETTER

Date: August 17, 1993

Telephone # (505) 326-5525

From: Barry A. Wieland

Facsimile # (505) 325-5423

To: Steve Rauzi

Transmitted from: Ricoh Fax 35

Number of Pages (including this page) 4

Please advise at the above telephone number if any problems are encountered.

Message/instructions:

Steve,

Enclosed please find a Halliburton District Laboratory Water Analysis Data Sheet on Chuska Energy Company's Black Rock #3, #5, and #8 water production. Said samples were collected from the separator dump, due to low water production from the three referenced wells.

If you should have any further questions, please don't hesitate to let me know. I look forward to meeting you on Friday.

Sincerely,

Barry A. Wieland
Operations Manager

Encl:



Fife Symington
Governor

State of Arizona
Arizona Geological Survey

845 North Park Avenue, #100
Tucson, Arizona 85719
(602) 882-4795

Larry D. Fellows
Director and State Geologist

February 3, 1992

871

Mr. Bob Hand
Dry Mesa Corporation
7255 Corporate #907
Houston, Texas 77036

Dear Bob:

Enclosed is the information you requested this morning, the completion reports for the Black Rock wells number 5 and 8.

Don't hesitate to let me know if I can provide additional information.

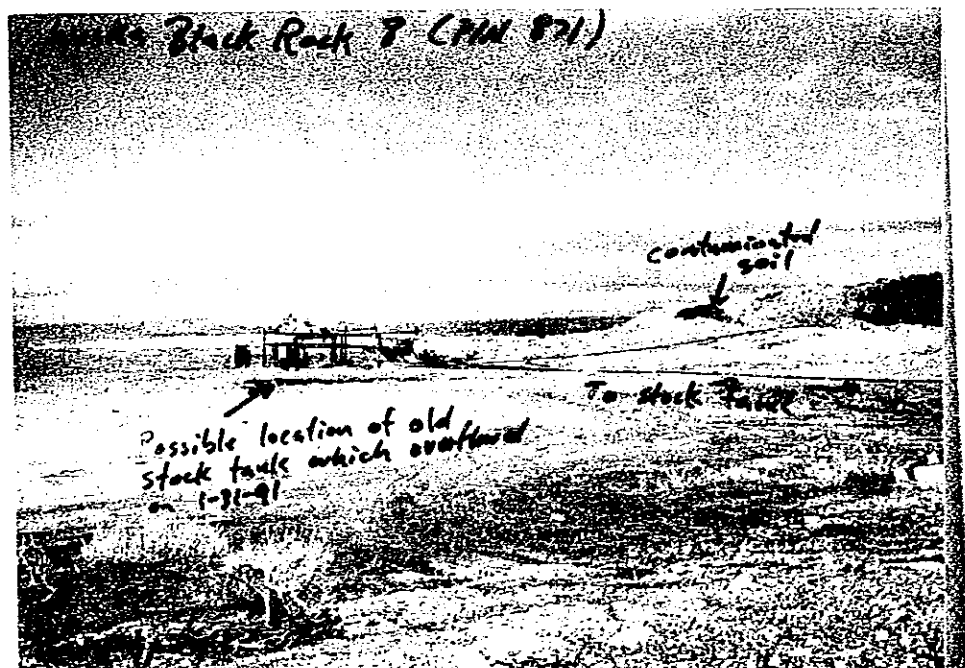
Sincerely,

Steve

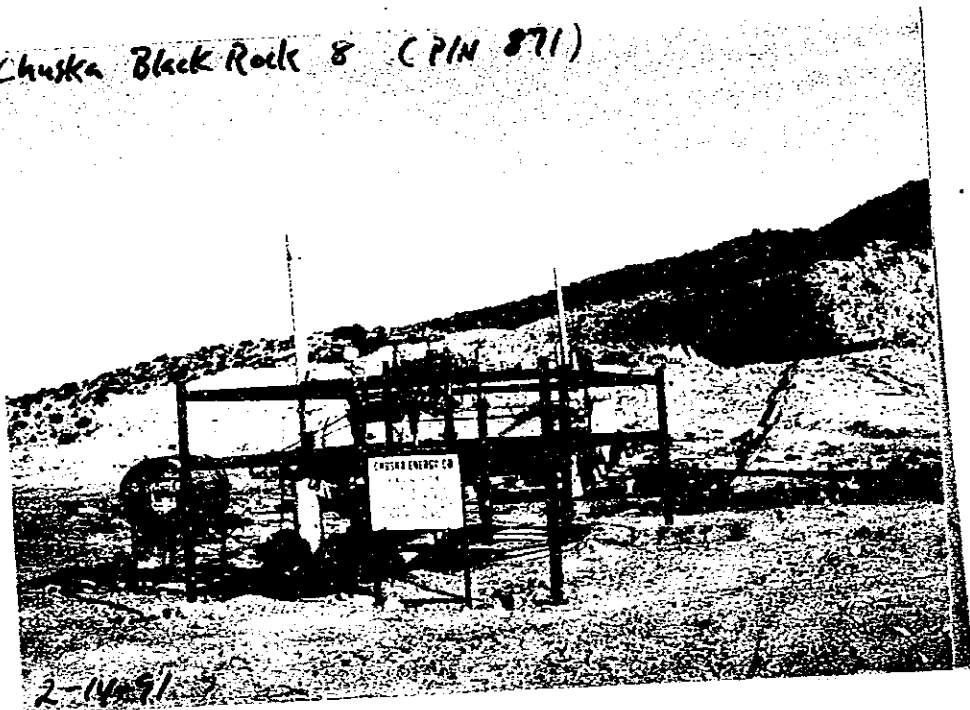
Steven L. Rauzi
Oil & Gas Program Administrator

Enclosures

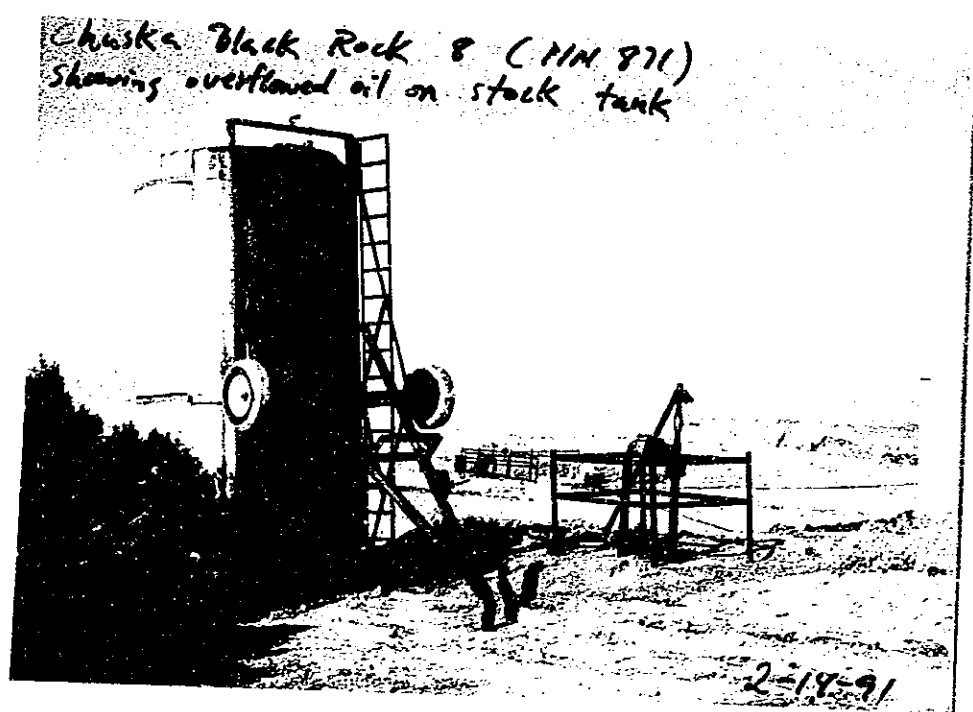
Black Rock 8
Photos



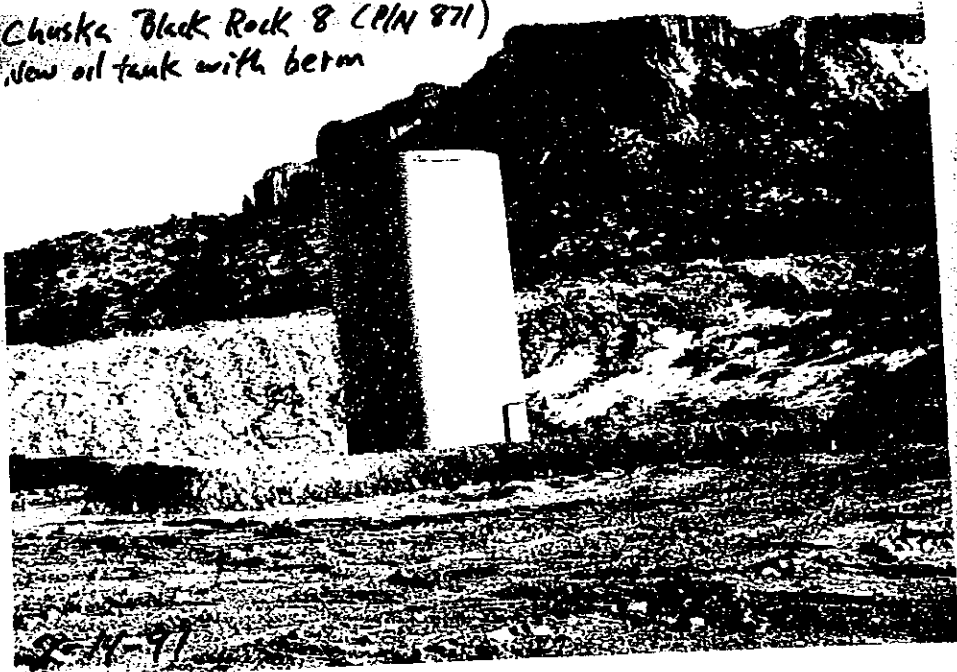
Chuska Black Rock 8 (PIN 871)



2-14-91



Chuska Black Rock 8 (PIN 871)
new oil tank with berm



2-11-97



February 18, 1991

MEMORANDUM TO FILE

Steven L. Rauzi
FROM: Steven L. Rauzi
Oil & Gas Specialist

SUBJECT: Inspect results of oil spill cleanup
Chuska's Black Rock 8, Permit No. 871

On Thursday, February 14, 1991, I visited the Black Rock 8 location and took several photographs which are attached to this memorandum. The purpose of my visit was to examine the results of the cleanup of the January 31 oil spill.

There is no current evidence of the oil spill except for an oil stain on the overflowed stock tank. A new stock tank with larger capacity is in place and the contaminated soil is stockpiled at the reserve pit. Small berms surround both the new stock tank and the location.

BUREAU OF LAND MANAGEMENT
OIL & GAS
REPORT OF UNDESIRABLE EVENT CONSERVATION COMMISSION NMSO 10/7/87

DATE OF OCCURRENCE/DISCOVERY: 1-31-91 TIME OF OCCURRENCE: 1300 HRS

DATE REPORTED TO BLM: 1-31-91 TIME REPORTED: 1526 HRS

BLM OFFICE REPORTED TO (RESOURCE AREA/DISTRICT OFFICE/OTHER): FARMINGTON

LOCATION: SECTION: 18 T. 40N R. 29E MERIDIAN

COUNTY: APACHE STATE: ARIZONA WELL NAME: BLACK ROCK #8

OPERATOR: CHUSKA ENERGY COMPANY

SURFACE OWNERSHIP (FEDERAL/INDIAN/FEE/STATE): NAVAJO TRIBAL

MINERAL OWNERSHIP (FEDERAL/INDIAN/FEE/STATE): NAVAJO TRIBAL

LEASE NO.: NOG 8702-1116 UNIT/CA NO.: RIGHT-OF-WAY NO.

TYPE OF EVENT, CIRCLE APPROPRIATE ITEM(S):

BLOWOUT, FIRE, FATALITY, INJURY, PROPERTY DAMAGE, OIL SPILL, SALTWATER SPILL, TOXIC FLUID SPILL, OIL AND SALTWATER SPILL, OIL AND TOXIC FLUID SPILL, SALTWATER AND TOXIC FLUID SPILL, GAS VENTING, UNCONTROLLED FLOW OF WELLBORE FLUIDS, OR OTHER (SPECIFY):

CAUSE OF EVENT: WELL HAD PRODUCED NO MORE THAN 5-10 BBL/DAY FOR LAST 1 1/2 YEARS. PRODUCED MORE THAN 200 BBL OVERNIGHT. OVERFLOWED 210 BBL STOCK TANK.

CAUSE AND EXTENT OF PERSONAL INJURIES/CAUSE OF DEATH(S):
NONE

EFFECTS OF EVENT: OIL DRAINED OFF LOCATION DOWN ROAD APPROX 2/10 MILE AND ON HILLSIDE APPROX 2/10 MILE. MOST OF SPILL ON SNOW/FROZEN GROUND.

ACTION TAKEN TO CONTROL THE EVENT: SHUT IN WELL. BUILD DIKE ACROSS ROAD TO PREVENT FURTHER DRAINAGE WHILE CLEANUP OPERATIONS IN PROGRESS.

LENGTH OF TIME TO CONTROL EVENT AND SUBSEQUENT CLEAN-UP: IMMEDIATE CONTROL. CLEANUP OPERATIONS COMMENCED IMMEDIATELY AND WILL BE COMPLETED 2-1-91. CONTAMINATED SOIL TO BE STOCKPILED ON LOCATION FOR BURIAL IN RESERVE PIT.

VOLUME(S) OF FLUIDS (SPECIFY):

DISCHARGED: 20-25 BBL OIL CONSUMED:
RECOVERED: 20-25 BBL OIL

OTHER FEDERAL, STATE, AND LOCAL GOVERNMENT AGENCIES NOTIFIED (INCLUDE NAMES AND DATE/TIME): ARIZONA OIL AND GAS COMMISSION (1-31-91/1535 HRS), NAVAJO MINERALS (1-31-91/1542 HRS). MESSAGE FOR NAVAJO EPA (1-31-91/1549 HRS).

ACTION THAT HAS BEEN OR WILL BE TAKEN TO PREVENT RECURRENCE: PLACE LARGER STOCK TANK ON LOCATION. NIGHT PUMPER TO INCLUDE WELL ON ROUNDS EACH NIGHT.

SIGNATURE OF OPERATOR (IF REPORT SUBMITTED BY OPERATOR): [Signature]
DATE: 2-1-91 TITLE: OPERATIONS ENGINEER

January 31, 1991

Permit 871

MEMO TO FILE

RE: Oil spill at Black Rock 8

Chris Hill of Chuska Energy Company called to report that approximately 10 barrels of crude oil was spilled today at the Black Rock 8 well. The spill was the result of an overflow of the collection tank at the well. Chuska will also notify the Navajo Tribe of the spill.

Since completion of the well in March 1990 oil production has averaged 5 to 10 barrels of oil a day. The oil was being produced into a 200 barrel tank. However, in the last 24 hours approximately 200 barrels of oil were produced which caused the tank to overflow.

The spill basically flowed over snow and Chuska is now engaged in clean-up operations. Pursuant to Rule R12-7-120 Chuska will follow-up this verbal notification with a written report describing the event, the clean up, and the method of disposal. We will personally inspect the spill area upon completion of the clean-up operation.

SLP
Steven L. Rauzi, 1/31/91

January 31, 1991

Permit 871

MEMO TO FILE

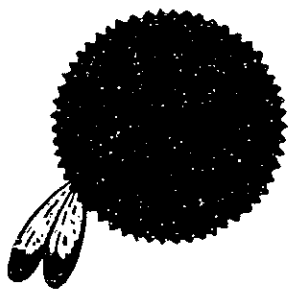
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SLB
Steven L. Rauzi, 1/31/91



CHUSKA ENERGY COMPANY

315 N. BEHREND • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

February 28, 1990

State of Arizona
Attn: Mr. Dan Brennan
Oil & Gas Conservation Commission
5150 N. 16th Street
Suite B141
Phoenix, Arizona 85016

Re: Black Rock No. 5 &
Black Rock No. 8

Dear Sir:

Enclosed are Open Hole Logs on the subject wells. We ask that you treat these as Tight Holes.

If you have any questions please feel free to call.

Sincerely,

Thomas R. McCarthy,
Senior Reservoir Engineer

TRM/brc
enclosures
file:trm\1BR5&81g.41



CHUSKA ENERGY COMPANY

315 N. BEHREND • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

March 5, 1990

Arizona Oil & Gas Commission
5110 North 16th Street Suite B141
Phoenix, Arizona 85016

AZ OIL & GAS
CONSERVATION COMMISSION
MAR 7 1990

Ref: Well Completion Report: Black Rock #8

Gentlemen

attached for your examination and approval is the original and two copies of the subject Report.

Please advise if you require additional information concerning this application.

Sincerely,

Donald S. Barnes
Operations Manager

DSB/csw
File: C:\WP\CSWH\BLAKROCK\BR5PCSG.CVR



CHUSKA ENERGY COMPANY

315 N. BEHREND • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

March 2, 1990

Arizona Oil & Gas Commission
5110 North 16th Street Suite B141
Phoenix, Arizona 85016

AZ OIL & GAS
CONSERVATION COMMISSION

MAR 7 1990


Ref: Black Rock #8: Sundry Notice: First Sale of Gas

Gentlemen

Attached for your examination and approval is the original and two copies of the subject Sundry Notice.

Please advise if you require additional information concerning this application. Chuska will greatly appreciate your prompt consideration.

Sincerely,


Donald S. Barnes
Operations Manager

DSB/csw

File: C:\WP\CSWH\BLAKROCK\1STGASCO.MPB



CHUSKA ENERGY COMPANY

315 N. BEHREND • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

AZ OIL & GAS
CONSERVATION COMMISSION

FEB 13 1990

February 9, 1990

Arizona Oil & Gas Commission
5110 North 16th Street Suite B141
Phoenix, Arizona 85016

Ref: Sundry Notice: Black Rock #8 - Production Casing

Gentlemen

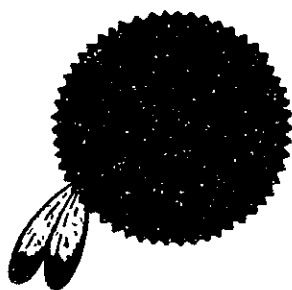
attached you will find the original and two copies of the subject
Sundry Notice.

Sincerely

Donald S. Barnes
Operations Manager

DSB/csw

File: C:\WP\CSWH\BR8PCSG.SUN



CHUSKA ENERGY COMPANY

315 N. BEHREND • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

AZ OIL & GAS
CONSERVATION COMMISSION

JAN 26 1990

January 16, 1990

Arizona Oil and Gas Commission
3110 North 19th Avenue, Suite 190
Phoenix, Arizona 85015

RE: Sundry Notice, Black Rock #8 - Spud

Gentlemen:

Enclosed you will find the original and six copies of the subject Sundry Notice.

Very Truly Yours

Donald S. Barnes
Operations Manager

DSB:csw
Encl.
File:DSB\SUBR8SPD



CHUSKA ENERGY COMPANY

315 N. BEHREND • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525
AZ OIL & GAS
CONSERVATION COMMISSION

JAN 26 1990

January 16, 1990

Arizona Oil and Gas Commission
3110 North 19th Avenue, Suite 190
Phoenix, Arizona 85015

RE: Sundry Notice, Black Rock #8 - Surface Casing

Gentlemen:

Enclosed you will find the original and six copies of the subject Sundry Notice.

Very Truly Yours

Donald S. Barnes
Operations Manager

DSB:csw
Encl.
File:DSB\SUBR8SPD



Oil and Gas Conservation Commission

STATE OF ARIZONA

5150 N. 16th STREET, SUITE B-141
PHOENIX, ARIZONA 85016
PHONE: (602) 255-5161

January 2, 1990

Mr. Thomas R. McCarthy
Chuska Energy Company
315 N. Behrend
Farmington, NM 87401

RE: Black Rock No. 5, State Permit No. 868
Black Rock No. 6, State Permit No. 869
Black Rock No. 7, State Permit No. 870
Black Rock No. 8, State Permit No. 871

Dear Tom:

Enclosed are the filing fee receipt, the approved Application for Permit to Drill, Permit to Drill, and Report on Proposed Operations for each of the referenced wells. Please note that we have not approved these wells for use as salt water disposal wells.

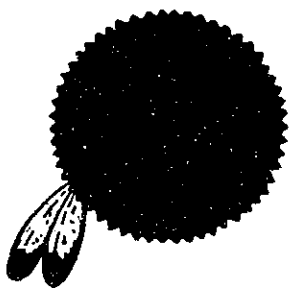
Upon successful completion of any of these wells, please send in a completed copy of the enclosed Form 4 for our records. I am also enclosing copies of other forms you will need when you have a successful gas well completion (Forms 3, 7, 8, 11, 12, 13, 14, 18, 20).

Sincerely,

Steven L. Rauzi

Steven L. Rauzi
Oil & Gas Specialist

Enclosures



CHUSKA ENERGY COMPANY

315 N. BEHREND • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

AZ OIL & GAS
CONSERVATION COMMISSION

DEC 21 1989

December 18, 1989

Mr. Daniel J. Brennan
Arizona Oil and Gas Conservation Commission
5150 North 16th Street, Suite B141
Phoenix, Arizona 85016

RE: Black Rock Nos. 5, 6, 7, 8, 9, 10, and 11
Drilling Permit Applications

Dear Dan:

Pursuant to our conversation on December 15th, I am enclosing a check for \$175.00 for the Applications to Drill the subject wells.

Please advise me if there is additional information or requirements for the approval of the subject APD's.

Sincerely,

Thomas R. McCarthy
Reservoir Engineer

TRM:bnp
Enclosure
File:TRM\DRPERBR

ASSIGNMENT TO ARIZONA STATE TREASURER
SECURITY IN LIEU OF CASH DEPOSIT FOR COMPLIANCE WITH
SECTION 35-155 ARIZONA REVISED STATUTES

AZ OIL & GAS
CONSERVATION COMMISSION

DEC 11 1989

NAME Chuska Energy Company
STREET ADDRESS 1250 N.E. Loop 410 Suite 710 San Antonio CITY
COUNTY Bexar STATE Texas TELEPHONE NUMBER 512-821-6194

hereinafter referred to as ASSIGNOR, does hereby assign and transfer to the Treasurer of the State of Arizona, hereinafter referred to as the TREASURER, all right, title and interest of any kind whatsoever, owned or held by Assignor in the principal, but not in the interest hereinafter accruing after the date of this assignment in the insured account of ASSIGNOR so long as such funds remain on deposit in the

Valley National Bank of Arizona - Valley Center Office
FINANCIAL INSTITUTION
whose address is 241 N. Central Phoenix Maricopa
STREET ADDRESS CITY COUNTY

Arizona, as evidenced by an account in the amount of Twenty-Five Thousand dollars (\$ 25,000) identified by account number 8272-4968 which account is insured by the Federal Deposit Insurance Corporation or the Federal Savings and Loan Insurance Corporation. This assignment is given as security for compliance with ARS 27-501 to 539 and with the Rules of the Oil and Gas Conservation Commission.

Dated this 30th day of November, 19 89, at San Antonio Texas
IMPORTANT - SIGNATURE OF ASSIGNOR

This Assignment shall be signed by the Individual Himself

Chuska Energy Company
NAME OF ASSIGNOR EXACTLY AS SHOWN ABOVE
Michael R. McLean SIGNATURE OF ASSIGNOR Executive Vice President

FIRST ENDORSEMENT - RECEIPT FOR NOTICE OF ASSIGNMENT

Receipt is hereby acknowledged to the Treasurer of the State of Arizona, hereinafter referred to as the TREASURER, of written notice of the assignment to said Treasurer of the above-identified account. We have noted our records to show the interest of the Treasurer in said account as shown in and by the assignment above. We have retained a copy of this document. We hereby certify that we have not received any notice of lien, encumbrance, hold, claim or other obligation against the above-identified account prior to its assignment to the Treasurer. We further hereby waive any current and future right of set-off against such account. We agree to make payment as required by the Rules and Regulations of the Treasurer adopted in accordance with applicable laws and the law applicable to this institution.

Dated this 14th day of December, 19 89, at Phoenix Arizona

BY John P. McLean John P. McLean
NAME OF FINANCIAL INSTITUTION
SIGNATURE OF OFFICER OF FINANCIAL INSTITUTION
TITLE President

Subscribed and sworn before me this 14 day of December, 19 89

NOTARY PUBLIC SIGNATURE
COMMISSION EXPIRES Sept. 30, 1993

SECOND ENDORSEMENT - RECEIPT FOR SECURITY AND DIRECTION TO PAY EARNINGS

Receipt is acknowledged of the assignment above and the account identified in the assignment above. The financial institution named in the assignment above is hereby authorized and directed to pay any earnings credited after the date of this assignment on the above-identified account of the above-named assignor.

Dated this 14th day of DECEMBER, 19 89, at PHOENIX

ARIZONA STATE TREASURER
Treasurer or Authorized Representative
By: Brian R. O'Keefe
(Prepare in duplicate. Please Type all Information)
Attach Original Assignment to Certificates of Deposit and File with State.

RECEIVED
STATE TREASURER
DEC 14 1989

ASSIGNMENT TO ARIZONA STATE TREASURER
SECURITY IN LIEU OF CASH DEPOSIT FOR COMPLIANCE WITH
SECTION 35-155 ARIZONA REVISED STATUTES

AZ OIL & GAS
CONSERVATION COMMISSION

DEC 11 1989

NAME Chuska Energy Company
STREET ADDRESS 1250 N.E. Loop 410 Suite 710 San Antonio CITY
COUNTY Bexar STATE Texas TELEPHONE NUMBER 512-821-6194

hereinafter referred to as ASSIGNOR, does hereby assign and transfer to the Treasurer of the State of Arizona, hereinafter referred to as the TREASURER, all right, title and interest of any kind whatsoever, owned or held by Assignor in the principal, but not in the interest hereinafter accruing after the date of this assignment in the insured account of ASSIGNOR so long as such funds remain on deposit in the

Valley National Bank of Arizona - Valley Center Office
FINANCIAL INSTITUTION

whose address is 241 N. Central Phoenix Mariposa
STREET ADDRESS CITY COUNTY

Arizona, as evidenced by an account in the amount of Twenty-Five Thousand dollars (\$ 25,000) identified by account number 8272-4968 which account is insured by the Federal Deposit Insurance Corporation or the Federal Savings and Loan Insurance Corporation. This assignment is given as security for compliance with ARS 27-501 to 539 and with the Rules of the Oil and Gas Conservation Commission.

Dated this 30th day of November, 19 89, at San Antonio Texas
Arizona

IMPORTANT - SIGNATURE OF ASSIGNOR

This Assignment shall be signed by the
Individual Himself

Chuska Energy Company

NAME OF ASSIGNOR EXACTLY AS SHOWN ABOVE

BY

Samuel R. McClean

SIGNATURE OF ASSIGNOR

Executive Vice President

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Dated this 14th day of December, 19 89, at Phoenix, Arizona

Valley National Bank of Arizona
NAME OF FINANCIAL INSTITUTION

BY [Signature]
SIGNATURE OF OFFICER OF FINANCIAL INSTITUTION

TITLE

Subscribed and sworn before me this 14 day of December, 19 89

[Signature]
NOTARY PUBLIC SIGNATURE

My Commission Expires Sept. 30, 1993

COMMISSION EXPIRES

SECOND ENDORSEMENT - RECEIPT FOR SECURITY AND DIRECTION TO PAY EARNINGS

Receipt is acknowledged of the assignment above and the account identified in the assignment above. The financial institution named in the assignment above is hereby authorized and directed to pay any earnings credited after the date of this assignment on the above-identified account of the above-named assignor.

Dated this 14th day of DECEMBER, 19 89, at PHOENIX Arizona

ARIZONA STATE TREASURER

Treasurer or Authorized Representative

By: Brian R. Oleson
(Prepare in duplicate. Please Type all Information)

Attach Original Assignment to Certificates of Deposit and File with State.

RECEIVED
STATE TREASURER

SECURITIES SAFEKEEPING
1700 WEST WASHINGTON ST. - PHOENIX, ARIZONA 85007

DATE: 12/14/89

STATE AGENCY NO. _____

STATE AGENCY AZ OIL & GAS CONSERVATION COMM.

State Treasurer's Use Only

COMPANY CHUSKA ENERGY CO.

1850 Mt Diablo Blvd, Ste 640

Walnut, CA 94500

DOMESTIC

FOREIGN

DEPOSIT

C.D. NO.: 2578904 ✓

ACCT NO.: 8272-4968 ✓

BANK: Valley National Bank of Arizona ✓

MATURITY DATE: 05/30/90 ✓

INTEREST RATE: 7.30 %

AMOUNT \$25,000.00 ✓

C.D. ASSIGNMENT MUST BE ATTACHED UNLESS C.D. IS PAYABLE TO STATE TREASURER

C.D. NO.:

BANK:

MATURITY DATE:

INTEREST RATE:

%

AMOUNT \$

STATE TREASURER VALIDATION NO. _____

RECEIVED THE ABOVE RELEASE

STATE AGENCY AUTHORIZATION

BY

Kate Barnes

Authorized Signature

BY

Authorized Signature

Date

STATE TREASURER AUTHORIZATION

BY

Brian R. O'Keefe

Authorized Signature

Bank or Firm

FOR BANK USE ONLY

BANK AUTHORIZATION

BY

Authorized Signature

Checked by

Verified by

STATE'S DEPOSITORY BANK

RECEIVED
STATE TREASURER
DEC 14 1989 1:30 PM '89

CANCELLED



Valley National Bank of Arizona

BRANCH Valley Center

Certificate of Deposit
NON TRANSFERABLE

2578904

12-1-89

BRANCH NO. 137

DATE

THIS CERTIFIES THAT THERE HAS BEEN DEPOSITED IN THIS BANK

VALLEY NATIONAL BANK 25,000 dollars 00 cts

PAY TO

Arizona State Treasurer

ACCOUNT NO.

8272-4968

\$ 25,000.00

(UPON
SURRENDER
OF THIS
CERTIFICATE
PROPERLY
ENDORSED)

For Chuska Energy Co
1850 Mt Diablo Blvd Ste 640
Walnut CA 94500

THIS CERTIFICATE MATURES IN 180 Days FROM ISSUE DATE ON

May 30, 1990

Monthly

AT THE RATE OF 7.3

FIRST INTEREST PAYMENT DUE

12-30-89

SINGLE MATURITY - INTEREST CEASES AT MATURITY

AUTOMATICALLY RENEWABLE - THIS CERTIFICATE WILL AUTOMATICALLY RENEW EVERY

UNLESS REDEEMED WITHIN 10 CALENDAR DAYS (ONE BUSINESS DAY FOR MATURITIES OF

31 DAYS OR LESS) AFTER ANY MATURITY. THE BANK RETAINS THE RIGHT TO REDEEM THIS

CERTIFICATE OR CHANGE THE INTEREST RATE AS OF ANY MATURITY.

DATE

David W. Smith
AUTHORIZED SIGNATURE

ORGANIZATION REPORT

Full Name of the Company, Organization, or Individual

Harken Southwest Corporation

Post Office Address (Box or Street Address)

P. O. Drawer 612007, Dallas, TX 75261 -or- 2505 N. Hwy 360, Suite 800, Grand Prairie, TX

Plan of Organization (State whether organization is a corporation, joint stock association, firm or partnership, or individual)

75050

Corporation

Purpose of Organization (State type of business in which engaged)

Oil & Gas Exploration

If a reorganization, give name and address of previous organization.

Changed name from Chuska Energy Company

If a foreign corporation, give
(1) State where incorporated

Nevada

(2) Name and post office address of state agent
Corporation Service Co.
530 South 4th Street
Las Vegas, Nevada 89101

(3) Date of permit to do business in state

1980

Principal Officers or Partners (if partnership)
NAME

Mikel D. Faulkner

TITLE

Chairman of the Board
Chief Executive Officer

POST OFFICE ADDRESS

P. O. Drawer 612007
Dallas, TX 75261

Richard Schroeder

President
Chief Operating Officer

" "

Bruce Huff

Senior Vice President
Chief Financial Officer

" "

Larry Cummings

Vice President
General Council

" "

DIRECTORS NAME

/ All of the above

POST OFFICE ADDRESS

P. O. Drawer 612007, Dallas, TX 75261

Don Raymond

DATE P. O. Drawer 612007, Dallas, TX 75261

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Production Administrator of the Harken Southwest Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature

Rachelle L. Montgomery

Date

6/24/94



STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Organization Report
File One Copy

Form No. 1

ORGANIZATION REPORT

Full Name of the Company, Organization, or Individual

Harken Southwest Corporation

Post Office Address (Box or Street Address)

P. O. Drawer 612007, Dallas, TX 75261 -or- 2505 N. Hwy 360, Suite 800, Grand Prairie, TX

Plan of Organization (State whether organization is a corporation, joint stock association, firm or partnership, or individual)

75050

Corporation

Purpose of Organization (State type of business in which engaged)

Oil & Gas Exploration

If a reorganization, give name and address of previous organization.

Changed name from Chuska Energy Company

If a foreign corporation, give
(1) State where incorporated

Nevada

(2) Name and post office address of state agent
Corporation Service Co.
530 South 4th Street
Las Vegas, Nevada 89101

(3) Date of permit to do business in state

1980

Principal Officers or Partners (if partnership)
NAME

Mikel D. Faulkner

TITLE

Chairman of the Board
Chief Executive Officer

POST OFFICE ADDRESS

P. O. Drawer 612007
Dallas, TX 75261

Richard Schroeder

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Chief Operating Officer

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Senior Vice President
Chief Financial Officer

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Vice President
General Council

" "

DIRECTORS NAME

/ All of the above

POST OFFICE ADDRESS

P. O. Drawer 612007, Dallas, TX 75261

Don Raymond

DATE P. O. Drawer 612007, Dallas, TX 75261

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Production Administrator of the Harken Southwest Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated herein are true, correct and complete to the best of my knowledge.

Signature Rachelle L. Montgomery

6/24/94

Date

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Organization Report
File One Copy

Form No. 1

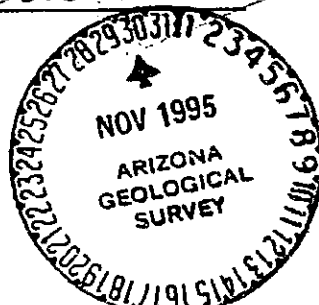


OPERATOR'S CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL OR GAS FROM LEASE		
Federal, State or Indian Lease Number, or lessor's name if fee lease NOG 8707-1142	Field Black Rock	Reservoir Paradox
Survey or Sec-Twp-Rge Section 7&18-40N-29E	County Apache	State Arizona
Operator Harken Southwest Corporation		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street 5605 N. MacArthur Blvd. Suite	City 400 Irving	State Texas 75038-2617
Above named operator authorizes (name of transporter) Giant Industries		
Transporter's street address 5764 Hwy 64	City Farmington	State New Mexico 87401
Field address		
Oil, condensate, gas well gas, casinghead gas		
To transport 100	% of the Condensate	from said lease.
OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:		
Name of gatherer Western Gas	% transported 100	Product transported Gas
Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change.		
Change of Condensate Purchaser (Black Rock #8 & #12)		

The undersigned certifies that the rules and regulations of the State of Arizona Oil & Gas Conservation Commission have been complied with in drilling and producing operations on this lease, except as noted above, and that the above transporter is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property, and that this authorization will be valid until further notice or until cancelled by the State of Arizona Oil & Gas Conservation Commission.

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Production Administrator of the Harken Southwest Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Date 11-29-95
Signature Rachelle Montgomery
Date approved: 11-30-95
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: Steven L. R...
Permit No. 871



STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Operator's Certificate of Compliance & Authorization to Transport Oil or Gas from Lease File Two Copies Form No. 8
--

(Black Rock #8 & #12)

OPERATOR'S CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL OR GAS FROM LEASE		
Federal, State, or Indian Lease Number, or lessor's name if fee lease NOG 8707-1142	Field Black Rock	Reservoir Paradox
Survey or Sec-Twp-Rge Section 7&18-40N-29E	County Apache	State Arizona
Operator RIM Southwest Corporation		
ADDRESS ALL CORRESPONDENCE CONCERNING THIS FORM TO:		
Street 5 Inverness Drive East	City Englewood	State Colorado 80112
Above named operator authorizes (name of transporter) Giant Industries		
Transporter's street address 5764 Hwy 64	City Farmington	State New Mexico 87401
Field Address		
Oil, condensate, gas well gas, casinghead gas		
To transport	% of the	from said lease
OTHER GATHERERS TRANSPORTING FROM THIS LEASE ARE AS FOLLOWS:		
Name of gatherer	% transported	Product transported
Western Gas	100%	Gas
Indicate whether or not this certificate is for a new lease. If not a new lease, indicate whether or not it is a change of operator, change of lease name, change of gatherer, or a consolidation or subdivision of leases and give effective date of change. Harken Southwest Corporation changed its name to RIM Southwest Corporation. See attached copy of Articles of Amendment to the Articles of Incorporation.		

The undersigned certifies that the rules and regulations of the State of Arizona Oil & Gas Conservation Commission have been complied with in drilling and producing operations on this lease, except as noted above, and that the above transporter is authorized to transport the above specified percentage of the allowable oil or gas produced from the above described property, and that this authorization will be valid until further notice or until cancelled by the State of Arizona Oil & Gas Conservation Commission.

CERTIFICATE: I the undersigned, under the penalty of perjury, state that I am the Vice President of the RIM Southwest Corporation (company), and that I am authorized by said company to make this report; that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Date 1/26/01

Rene Morin
Signature Rene Morin, Vice President

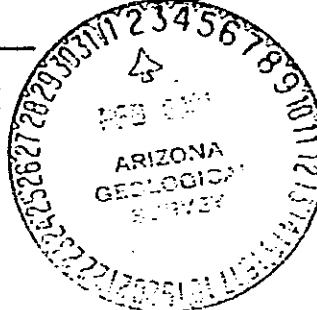
Date approved: 2-5-01

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By: Shawn L. Rain

Permit No. 871, 875

Mail two copies of completed form to:
Oil & Gas Program Administrator
Arizona Geological Survey
416 W. Congress #100
Tucson, AZ 85701-1315



STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Operator's Certificate of Compliance & Authorization to
Transport Oil or Gas from Lease
File Two Copies
Form No. 8

TYPE OR PRINT LEGIBLY
FILE DUPLICATE ORIGINALS
FILING FEE: \$100.00

ARTICLES OF AMENDMENT
TO THE
ARTICLES OF INCORPORATION

3214384

Pursuant to the provisions of Section 53-13-4, NMSA 1978, the undersigned corporation adopts the following Articles of Amendment to its Articles of Incorporation:

ARTICLE ONE: (Note 1) The Corporate name and NMSCC# of the corporation a

Harken Southwest Corporation ~~2000001~~ 1070770

ARTICLE TWO: (Note 2) The following amendment to the Articles of Incorporation was adopted by the Sole Shareholder of the corporation on December 21, 2000 in the manner prescribed by the New Mexico Business Corporation Act:
(Insert amendment or attach exhibit, if needed - Indication should be given to reflect which article(s) number has been amended.)

ARTICLE ONE is amended and shall read as follows:

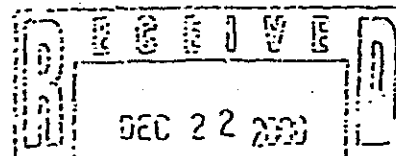
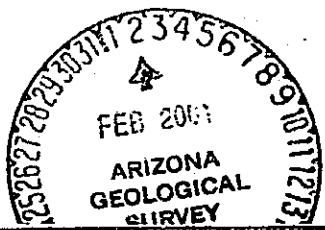
"The name of the corporation is RIM Southwest Corporation."

ARTICLE THREE: (Note 3) The number of shares of the corporation outstanding at the time of such adoption was 20,000 and the number of shares entitled to vote thereon was 20,000.

ARTICLE FOUR: (Note 4) The designation and number of outstanding shares of each class entitled to vote thereon as a class were as follows:

CLASS	NUMBER OF SHARES
One class only of Common Stock	20,000

ARTICLE FIVE: (Note 3) The number of shares voting for such amendment was 20,000 and the number of shares voting against such amendment was 0.



ARTICLE SIX: (Note 3) The number of shares of each class entitled to vote thereon as a class voted for and against such amendment, respectively, by CLASS NUMBER OF SHARES

Common -- only one class

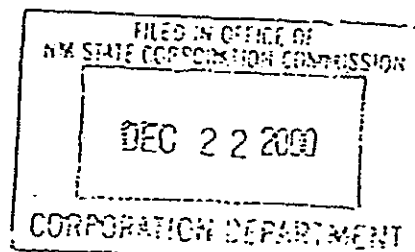
FOR
20,000

AGAINST
0

ARTICLE SEVEN: (Note 4) The manner, if not set forth in such amendment, which any exchange, reclassification, or cancellation of issued shares provided for in the amendment shall be affected, is as follows:

inapplicable

DATED: December 21, 2000



Harken Southwest Corporation

(Note 1) CORPORATE NAME

BY: Stephen W. Rector
(Note 5) Its President
Stephen W. Rector

AND: Rena Morin
(Note 5) Its Vice President
Rena Morin

Under penalty of perjury, the undersigned declares that the foregoing document executed by the corporation and that the statements contained therein are true and correct to the best of my knowledge.

Harken Southwest Corporation

BY: Stephen W. Rector
(Note 5) (One of the above officers signs)
Stephen W. Rector, President



RESOLUTION OF THE SOLE SHAREHOLDER
OF
HARKEN SOUTHWEST CORPORATION

A Special Meeting of the sole shareholder of HARKEN SOUTHWEST CORPORATION,
(the "Corporation"), was held beginning at 3:30, Mountain Time, on Thursday December
21, 2000, pursuant to which the sole shareholder consented to, voted in favor of and adopted the
following resolution:

RESOLVED, that the Articles of Incorporation of the Corporation be amended in
the form attached hereto by changing the name of the Corporation as follows:

ARTICLE I

NAME

The name of the corporation is RIM Southwest Corporation.

IN WITNESS WHEREOF, the undersigned has executed this written consent to be
effective as of the 21 day of December 2000.

RIM SW HOLDING CORPORATION, a Colorado
corporation

By: Stephen W. Rector
Name: Stephen W. Rector
Its: President



ORGANIZATION REPORT

Full Name of the Company, Organization, or Individual
RIM SOUTHWEST CORPORATION (FORMERLY KNOWN AS HARKEN SOUTHWEST CORPORATION)
 Mailing Address and Phone Number
5 INVERNESS DRIVE EAST, ENGLEWOOD, COLORADO 80112 (303) 799-9828
 Plan of Organization (State whether organization is a corporation joint stock association, firm or partnership, or Individual)
Corporation
 Purpose of Organization (State type of business in which engaged)
Oil & Gas Production/Sales
 If a reorganization, give name and address of previous organization
N/A

If a foreign corporation give (1) State where incorporated	(2) Name and mailing address of state agent	(3) Date of permit to do business in state
New Mexico	CT Corporation 322 5 N. Central Avenue Phoenix, AZ 85012	1/16/88
Principal Officers or Partners (if partnership) NAME	TITLE	MAILING ADDRESS
V. A. Isaacs, Jr.	Chairman, Board of Directors	5 Inverness Drive East Englewood, CO 80112
Stephen W. Rector	President	5 Inverness Drive East Englewood, CO 80112
Rene' Morin	Vice President	5 Inverness Drive East Englewood, CO 80112
Robert L. Vesco	Vice President/Secretary/ Treasurer	5 Inverness Drive East Englewood, CO 80112
William J. Holcomb	Vice President	Post Office Box 2058 Farmington, NM 87499

DIRECTORS NAME	MAILING ADDRESS
V. A. Isaacs, Jr.	SAME AS ABOVE
Stephen W. Rector	" "
Rene' Morin	" "
Robert L. Vesco	" "
William J. Holcomb	" "

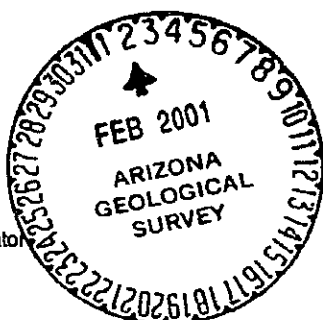
CERTIFICATE I, the undersigned, under the penalty of perjury state that I am the Secretary of the RIM Southwest Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Robert L. Vesco
 Signature Robert L. Vesco, Secretary

1/25/01

Date

Mail completed form to
 Oil and Gas Program Administrator
 Arizona Geological Survey
 416 W Congress., #100
 Tucson, AZ 85701



STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION

Organization Report
 File One Copy

Form No. 1